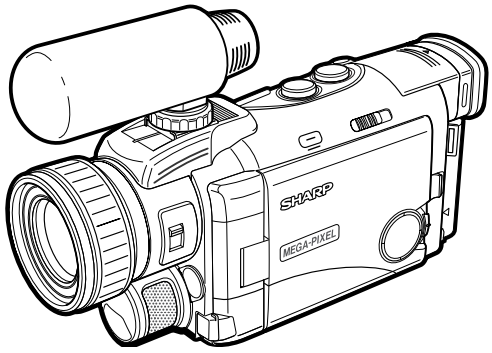
SHARP SERVICE MANUAL

S21P3VL-ME100

LIQUID CRYSTAL DIGITAL CAMCORDER PAL



MODELS VL-ME100S VL-ME100H VL-ME100E

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified be used.

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SERVICE MANUAL LIQUID CRYSTAL DIGITAL CAMCORDER PAL MODELS VL-ME100S/H/E

1. SPECIFICATIONS

Signal System:	PAL standard
Recording System:	2 rotary heads, helical scanning system
Cassette:	Digital VCR Mini DV video cassette
Recording/Playback Time:	90 minutes (DVM60, LP mode)
Tape Speed:	SP mode: 18.831 mm/second LP mode: 12.568 mm/second
Pickup Device:	1/3.6" (effective size: 5.0 mm) CCD image sensor (with approx. 1,330,000 pixels including optical black)
Lens:	10x optical/200x digital power zoom lens (F1.6, f = 4.2 – 42 mm in TAPE-CAMERA mode, f = 5.7 – 42 mm in CARD-CAMERA mode), full-range auto focus
Lens Filter Diameter:	46 mm
Viewfinder:	Electronic LCD colour viewfinder
Monitor:	3.5" (8.8 cm) full-colour LCD screen (TFT active matrix)
Microphone:	Electret stereo microphone
Colour Temperature Compensation:	Auto white balance with white balance lock and indoor, outdoor, manual adjustment feature
Minimum Illumination:	3 lux* (with gain-up, F1.6)
Video Output Level:	1.0 Vp-p 75-ohm unbalanced
Audio Output Level:	–8 dBs, impedance less than 2.2 kohms
Speaker Output:	300 mW
Still Image Compression System/ Recording Format:	JPEG base line conformance/JPEG (Exif2.1)
Still Image Recording Medium:	SD Memory Card, MultiMediaCard
Power Requirement:	DC 7.4 V
Power Consumption:	4.3 W (during camera recording in TAPE-CAMERA mode using the viewfinder in Full Auto mode with the DIS function on) 5.1 W (during camera recording in TAPE-CAMERA mode using the LCD monitor in Full Auto mode with the DIS function on and backlight in normal mode)
Operating Temperature:	0°C to +40°C
Operating Humidity:	30% to 80%
Storage Temperature:	–20°C to +60°C
Dimensions (approx.):	72 mm (W) x 90 mm (H) x 200 mm (D)
Weight (approx.):	705 g (without battery pack, lithium battery, video cassette, and card)

AC Adapter/Battery Charger (UADP-0321TAZZ)

Power Requirement:	AC 110-240 V, 50/60 Hz
DC Output:	7.3 V
Power Consumption:	23 W
Dimensions (approx.):	69 mm (W) × 43 mm (H) × 113 mm (D)
Weight (approx.):	160 g

MultiMediaCard (Supplied Accessory)

Memory Capacity:	8 MB
Power Requirement:	3 V
Operating Temperature:	0°C to +40°C
Storage Temperature:	–20°C to +60°C

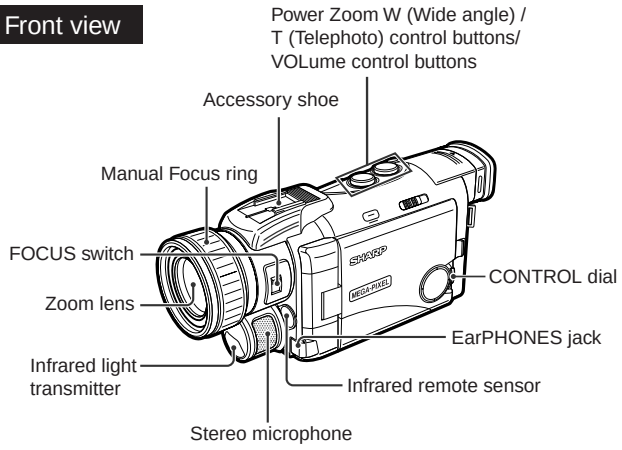
Specifications are subject to change without notice.

*Minimum illumination: Since there is no widely accepted testing procedure for determining minimum illumination capability, lux ratings are comparable only between models from the same manufacturer.

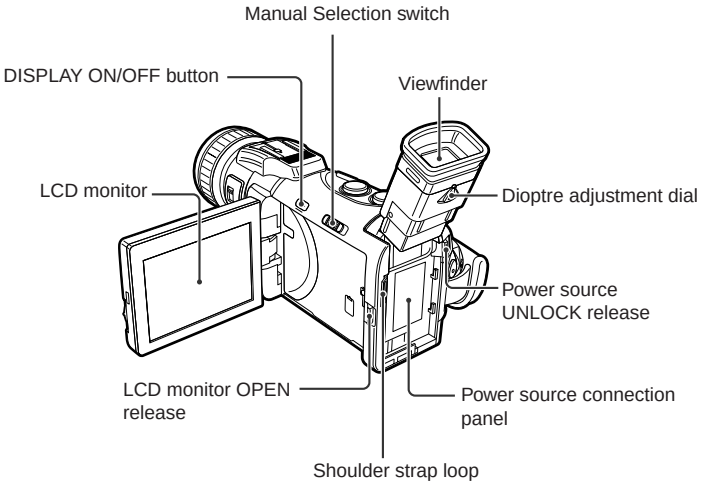
2. PART NAMES

For details on the use of each control.

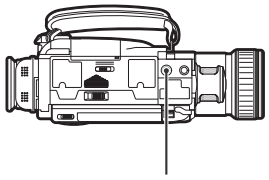
Front view

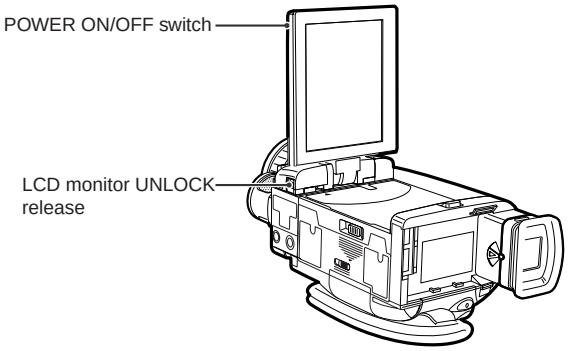


Left view

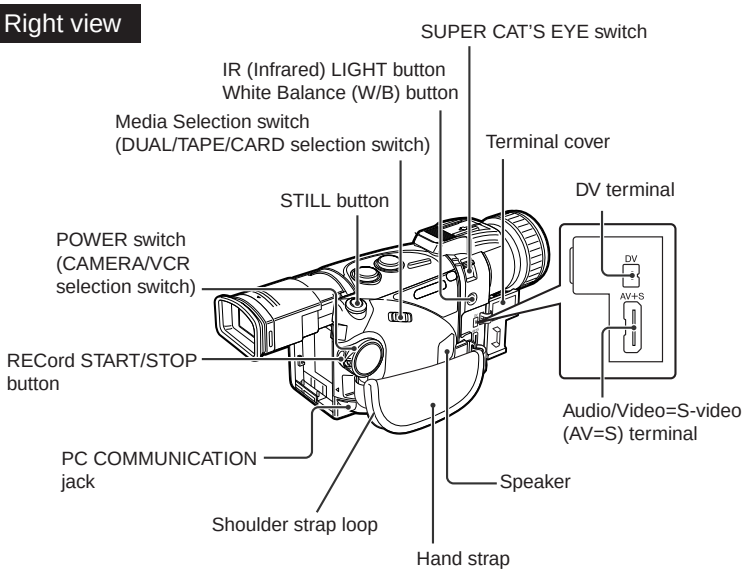


Bottom view

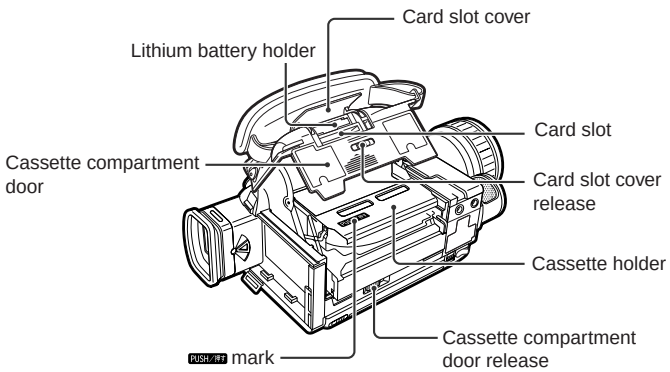




Right view



When the cassette compartment door is open

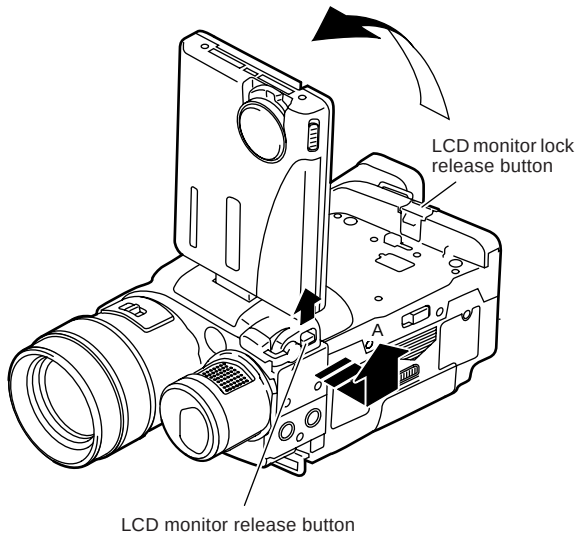


3. DISASSEMBLY OF THE SET

Note:

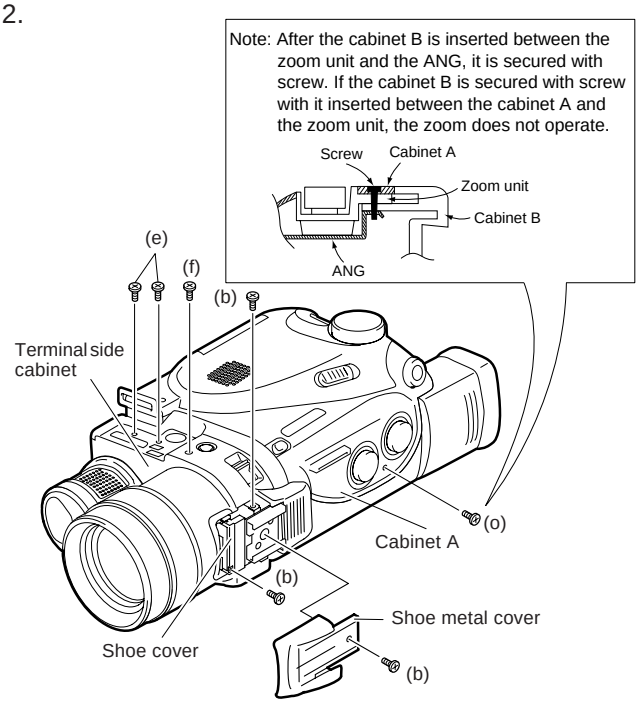
Before removing the cabinet, turn off the power supply, and ascertain that the battery have been removed.

1.



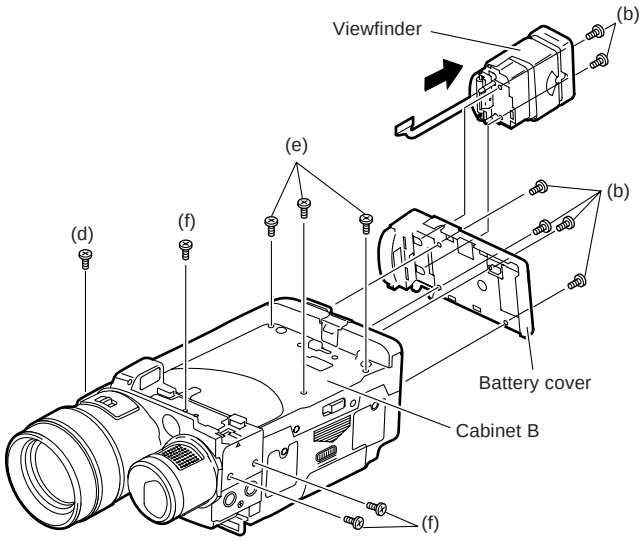
- Press the LCD monitor lock release button and open the LCD by 90˚.
- While pulling up the LCD monitor release button, slide the LCD in the horizontal direction and lift it to remove it. (Shift the LCD in the direction indicated by the arrow A.)

2.


Note: After the cabinet B is inserted between the zoom unit and the ANG, it is secured with screw. If the cabinet B is secured with screw with it inserted between the cabinet A and the zoom unit, the zoom does not operate.
Screw
Cabinet A
Zoom unit
Cabinet B
ANG
(e)
(f)
(b)
Terminal side cabinet
(o)
Cabinet A
(b)
Shoe metal cover
Shoe cover
(b)

- Remove the screw ((o)XiPSF17P05000)(1 pc.) fixing the cabinet A.
- Remove the screw ((b)XiPSF17P03000)(1 pc.) to remove the shoe metal cover.
- Remove the screws ((f)XiPSN17P04000)(1 pc.), ((e) XiPSN17P03000)(2 pcs.) and ((b) XiPSF17P03000)(1 pc.) fixing the terminal side cabinet.
- Remove the screw ((b)XiPSF17P03000)(1 pc.) fixing the shoe cover.

3.

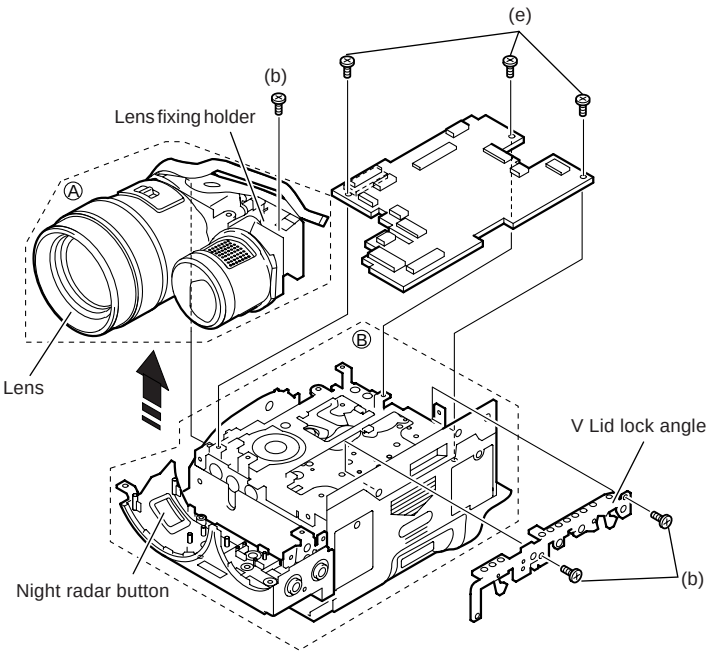


- Remove the screws ((e)XiPSN17P03000)(3 pcs.), ((f)XiPSN17P04000)(3 pcs.) and ((d)XiPSN17P02000)(1 pc.) fixing the cabinet B.
- Remove the screws ((b) XiPSF17P03000)(6 pcs.) fixing the battery cover to remove the cabinet B, and then remove the battery cover. (Since the main PWB 1, the battery cover FPC, the viewfinder FPC, and the cabinet B FPC are connected, remove the FPC connector.)
- Remove the viewfinder from the battery cover. (They are engaged by claws.)
- Remove the shoe cover. (They are engaged by claws.)
  (Since the main PWB 1 and the hot shoe FPC are connected, remove the FPC connector.)

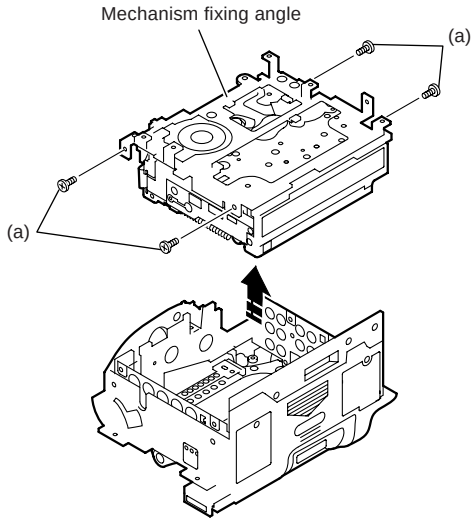
4.

- Remove the screws ((b)XiPSF17P03000)(2 pcs.) fixing the cabinet A to remove the V lid lock angle.
- Remove each FPC of the main PWB.
- Remove the screws ((e)XiPSN17P03000)(3 pcs.) fixing the main PWB to remove it.
- Remove the screw ((b)XiPSF17P03000) (1 pc.) fixing the lens fixing holder and the tripod angle.

Note: When installing the lens unit Ⓐ to the chassis Ⓑ Insert the lens unit after setting the night radar button on the chassis side to "on" and then the lens unit lever to "on". If these steps are not performed, the button is not engaged with the lever, which may damage the lever.

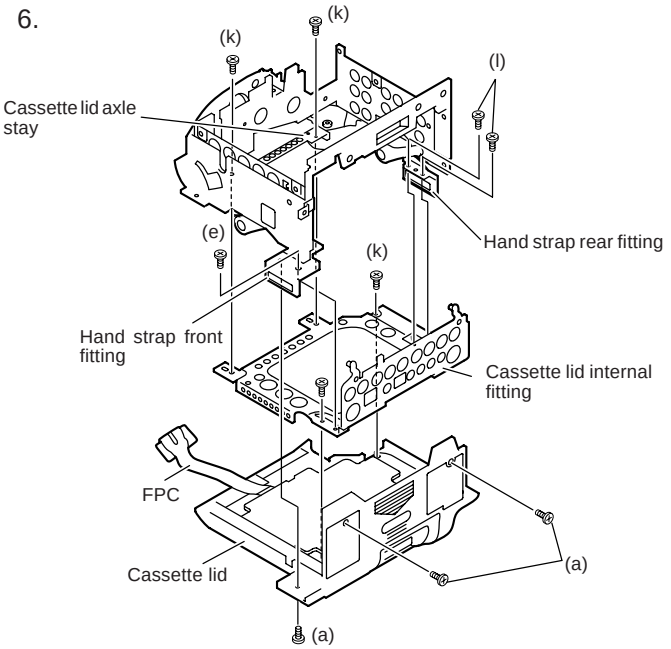


5.



- Remove the screws ((a) XiPSF17P02000) (4 pcs.) fixing the mechanism fixing angle and lift the mechanism in the direction indicated by the arrow to remove it.

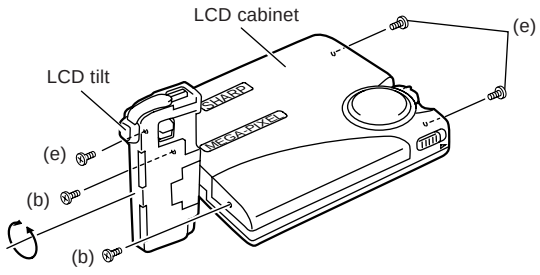
6.



- Remove the screws ((l)LX-HZ3037CEFF)(2 pcs.), ((e) XiPSN17P03000)(1 pc.) and ((a)XiPSF17P02000)(1 pc.) fixing the hand strap front/rear fitting section.
- Remove the screws ((k)LX-HZ0050TAFN)(2 pcs.) fixing the cassette lid axle stay to remove the cassette lid. (When removing it, be careful not to cut the FPC in the sheet metal.)
- Remove the screws ((k)LX-HZ0050TAFN)(2 pcs.) and ((a)XiPSF17P02000)(2 pcs.) fixing the cassette lid internal fitting fixed to the cassette lid to remove it.

7.

- Turn the LCD tilt to verticalize it to the LCD cabinet.
- Remove the fixing screws ((b)XiPSF17P03000)(2 pcs.) and ((e)XiPSN17P03000)(3 pcs.).

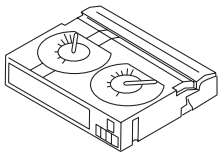
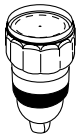
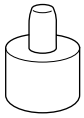
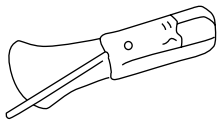
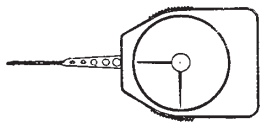
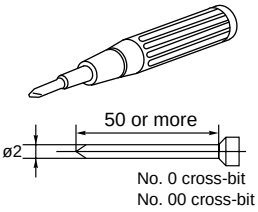
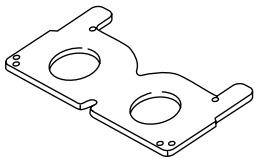
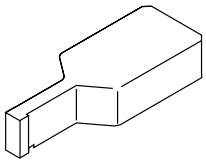
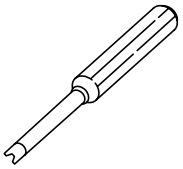
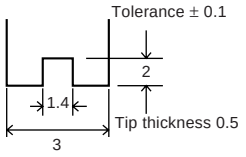
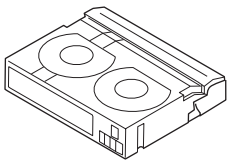
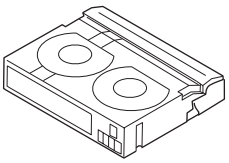
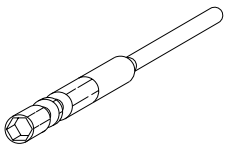


4. MECHANISM ADJUSTMENT JIGS AND PARTS

4-1. Mechanism check adjustment jigs

Configuration
1. Name
2. Part No.
3. Code
* Model, Uses Remarks

<Note: The entries of list>

 1. PB-use cassette Torque meter 2. 9DASD-1015 3. DB * 1mN·m/1.5mN·m	 1. Torque gauge 2. JiGTG0045 3. CN * For use in VS-REW winding torque measurement.	 1. Torque gauge head 2. 9EQTGH-DH5000 3. BW * For use with the following torque gauge.	 1. Tension gauge 4N 2. JiGSG0400 3. BK * For measurement of pinch roller pressure.	 1. Dial tension gauge 2. 9DAPTG-10-10W 3. CA * PTG-10
 1. Torque screwdriver 150mN·m 2. JiGTD1500RTDH 3. CB	 1. Master plane 2. 9EQMP-VLPD1 3. CL * For checking reel base height.	 1. Height adjustment jig 2. 9DAHG-PD1 3. BZ * For height adjusting.	 1. Height adjustment screwdriver 2. 9EQDRiVER-DH5 3. BC * For guide roller adjustment.	* For Tu guide adjustment. * For T roller adjustment. * Bit shape (see figure below). 
 1. Alignment tape – (I) 2. VR3-GAZXS 3. CF * For tape running adjustment.	 1. Alignment tape – (II) 2. VR3-JPZQS 3. CG * For SW point adjustment. * 90ADVC-TAPEPAL can use, too.	 1. For hexagon nut opposite side 3mm bit. 2. 95CM22001 3. BL * For S guide hexagon nut installation.	<Miscellaneous> (1) Slide caliper (2) Precision screwdrivers (Phillips head and slotted) (3) Radio needle-nose pliers (4) Tweezers	

Configuration
1. Name
2. Part No.
3. Code
* Model, Uses Remarks

4-2. Parts for regular periodic inspection and maintenance

<Note: The entries of list>

1. Oil Cosmo Hydro HV22 2. 9EQ-Oil-HV22 3. AE * Cosmo Petroleum K.K.	1. Cleaning paper 2. JiGDUSPER 3. AP * DUSPER ∑ (SIGMA) (ozu Co., LTD.)	1. Grease: Moly Coat YM-103 2. 99FGREASE-YM103 * Dow craning	1. Cleaning liquid: industrial-use ethyl alcohol * Commercially available item
		1. Screw lock (1401B) * Three Bond	1. Extremely thin cotton swab * Commercially available item

<How to make jigs for mechanism checking and adjustment>

(1) Reel hub for back tension measurement (Fig. 1)
   1) Obtain a commercially available cassette tape reel hub. (Disassemble the cassette tape and remove the tape from the reel hub.)
   2) Paste one end of a string (about 20cm long) to the reel hub with (for example) cellophane tape.
   3) Paste the weight of about 0.21N on the upper side reel hub.

(2) String for use in pinch roller snap-fit force measurement (Fig. 2)
   1) Obtain an approximately 20cm length of commercially available string.
   2) Tie the 2 ends together to form a loop.

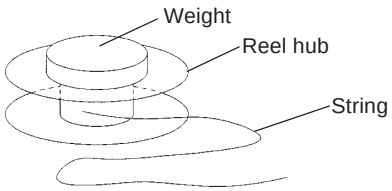


Fig. 1

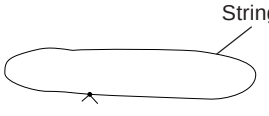


Fig. 2

5. INSPECTION AND MAINTENANCE ITEMS AND INTERVALS

In order to keep the mechanical section always in good condition, perform the following inspection and maintenance at regular intervals. In addition, after repair, perform the following maintenance items regardless of how long the user has been using the unit.

5-1. List of inspection and maintenance items

○ • • • Replace. □ • • • Clean. △ • • • Lubricate. ★ • • • Check.

	Inspection and maintenance location	Time of use (h) 500	1,000	1,500	2,000	3,000	Symptoms that indicate need for maintenance	Remarks
Tape running system	Tape running section (see section 7-3)	□	□	□	□	□	• Block-type noise • Head hole clogging • Tape damage	**Note:** Replace the drum ass'y if the video head is cleaned but the envelope still does not appear. (When the envelope is normal, refer to "10. USEFUL TIPS".)
	Drum section, Video head (see section 7-3)	□	□	□	□	□		
		<Rollers> • Replace if there is anything abnormal in the rotation, or if there is run-out (that becomes large). <Other than the above> • Clean the section that contacts the tape (especially the lower drum helical section). Use the specified cleaning liquid.						
Drive system	Timing belt	—	★○	—	★○	★○	• The tape fails to run. • The tape becomes slack. • Block-type noise • Abnormal noise	• Replace if there is anything abnormal.
	Pinch roller	□	□	□	□○	□		
	Capstan motor	—	○	—	○	○		
	Swing arm S reel base, Tu reel base	—	★○	—	★○	★○		
	Center pulley shaft Intermediate pulley shaft Swing arm boss Intermediate gear A shaft, Intermediate gear B shaft	—	△	—	△	△	• Abnormal noise	• Lubricate with oil. [Oil] Cosmo Hydro HV22 **Note:** Apply oil to the shaft, then wipe lightly with a cloth.
	Loading motor Mode switch	—	★○	—	★○	★○	• Cannot eject. • Fails to enter a mode.	• Replace if anything is abnormal (including the noise).
Performance checks	Abnormal noise	★	★	★	★	★	• The tape fails to run. • The tape becomes slack. • Tape damage • The play-back image is abnormal.	• Replace any part that fails to perform within the standard.
	PB · VS/R winding torque	—	★	—	★	★		
	PB · VS/R · loading back tension Tu reel base ratchet torque S reel base no-load torque	—	★	—	★	★		

[Oil] Cosmo Hydro HV22 [Screw lock] Three Bond 1401B
[Grease] Moly Coat YM-103 [Cleaning liquid] Industrial-use ethyl alcohol

5-2. Precautions

(1) When replacing any part, always replace the cut washer that was removed with a new one.
(2) This mechanism does not have control adjustment. If the control cannot be set as required, clean and or replace parts.
(3) On the oil
  a) Always use the specified oil. (Using another kind of oil can cause various kinds of trouble.)
  b) Always use clean oil, without any mixed-in dirt, to lubricate bearings. (Using oil with dirt mixed in can cause the bearings to wear or to stick.)
  c) One drop of oil is the amount shown in the Fig. 1, on the point of a pin.
(4) Perform circuit repair, tape running adjustment, etc. with the cassette controller assembly attached to the mechanism.
(5) When operating the mechanism separately, apply voltage to the loading motor. However, the terminal voltage must be DC3V~4V.
(When the mechanism is connected to the main PWB, do not apply external voltage to the loading motor. It may cause a trouble.)
(Forcing the gears to turn by hand entails danger of breakage.)
If the mechanism is separated from the unit, the capstan motor may rub and be damaged if spacing under the mechanism is inadequate.
(6) To install the cassette controller, push section A in the Fig. 2. Do not push anything else.
(7) Do not deform any of the mechanical parts.

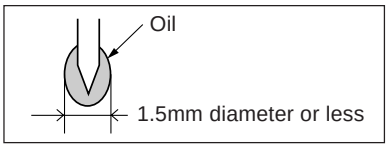


Fig. 1

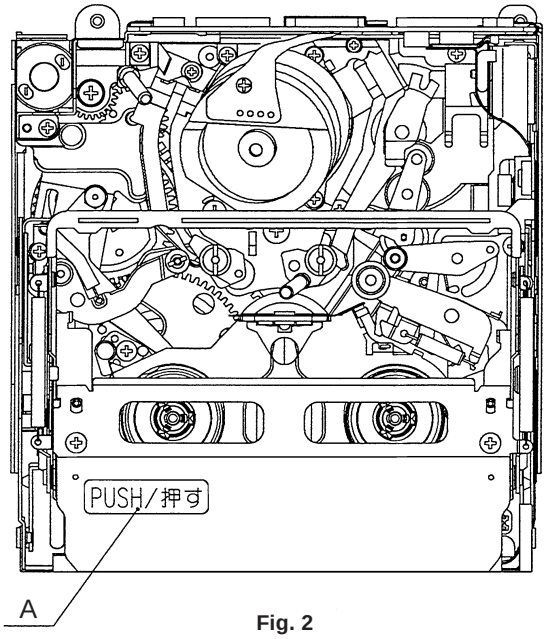


Fig. 2

6. MECHANICAL ADJUSTMENTS AND CHECKS

The items discussed here relate to general on-site servicing (field servicing). Adjustments and replacements that require sophisticated facilities, jigs and technology are omitted.
In addition, in order to maintain the characteristics that the unit has when it is new, not only are inspection and maintenance necessary, but it is absolutely necessary that, for example, the tape not be damaged, and always use jigs for adjustments that require them.

<Precautions>
(1) Always set the power supply and state of the unit as follows Notes for mechanism adjustments and checks.
AC adapter used, with cassette controller assembly
AC adapter used, without cassette controller assembly (Independent Mechanism)
DC3V, without cassette controller assembly (Independent Mechanism)
(2) When the mechanism is connected to the main PWB, do not apply external voltage to the loading motor. It may cause a trouble.
(3) Always run the tape with the cassette controller assembly attached.

6-1. Checking the playback (recording) winding torque

AC adapter used, with cassette controller assembly

(1) Set the torque cassette with the cassette controller assembly attached, then, in SP recording mode (playback mode if a signal has already been recorded in SP mode on the tape), confirm that the torque on the winding side is within the standard.
<Winding torque standard in record (playback) mode>
(If there is torque ripple, read the center value.)
0.70 +0.4/-0.3mN·m, ripple 0.4mN·m or less

6-2. Checking the rewinding playback (VS-REW) winding torque

AC adapter used, without cassette controller assembly (Independent Mechanism)

(1) Remove the cassette controller assembly, press the DOWN switch, using the adhesive tape and referring to 8-3, operate in the TEST mode (T01) to rewind, and set the rewinding playback (VS-REW) mode.
(2) Set the torque gauge on the S reel base, press the front end of tension post with your finger in the arrow A direction so as to ascertain that the winding torque is as specified. (Check without rotating the torque gauge.)
<Rewinding playback (VS-REW) winding torque standard>
(If torque ripple exists, read its center value.)
1.6 ± 0.6mN·m, ripple 0.5mN·m or less
(3) After checking the winding torque remove the torque gauge, and remove the adhesive tape used in item (1) above (refer to 8-3). The STANDBY mode is set automatically.

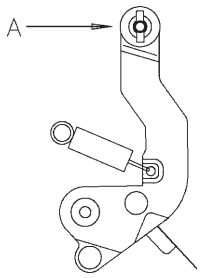


Fig. 1. Removal of tension band when measuring the rewinding playback (VS-REW) winding torque

6-3. Checking of reel base height

DC3V, without cassette controller assembly (Independent Mechanism)

(1) Remove the cassette controller assembly (refer to 8-2).
(2) Referring to 8-1, apply DC3V to the loading motor and put the system into playback mode.
(3) Taking adequate care so that the master plane does not contact drum, running parts (guide roller, etc.), or the MIC contacts. Fit the master plane holes to the 2 guides (A and B) in Fig. 2.
(4) Confirm that the heights of the S reel base reel receiving surface and the Tu reel base reel receiving surface below the master plane top surface are within the set values, using, for example, a slide calliper (Fig. 3).
When checking the S reel base height, press the front end of tension post in the arrow A direction with your finger to release the tension band, and then check the height in this state (Fig. 1).
(5) If the height is not within set values, replace the washer under the reel base, and adjust as specified.
Note: After the adjustment, make sure that the reel bases rotate smoothly.

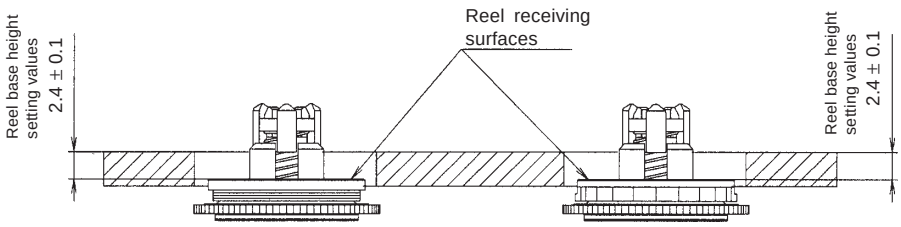


Fig. 3

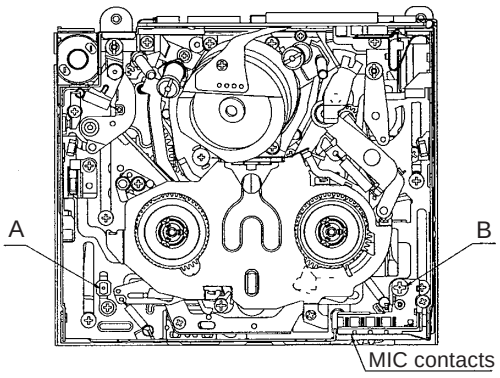


Fig. 2

6-4. Back tension torque check and adjustment in record (playback) mode

AC adapter used, with cassette controller assembly

(1) Checking

Set the torque cassette (SD-1015), and make sure in the SP record mode that the supply side torque is within the standard shown below (or in the playback mode for the tape on which the signal has been SP-recorded).

<Standard>

(If torque ripple exists, read its center value.)

0.7 ± 0.1mN·m

(2) Adjustment (Fig. 4)

If the value is out of standard range, adjust, using the screw 1 shown in Fig. 4.

1. Loosen the screw 2 slightly.
2. Adjust to turning the screw 1. When back tension is too high, turn the screw 1 counterclockwise (CCW).
   When back tension is too low, turn the screw 1 clockwise (CW).
3. After adjustment fix the angle with the screw 2. (At this time take care so as to prevent excessive tightening.) Apply Screw Lock to the screw 1.

<Caution>

Screw tightening torque: 0.04N·m

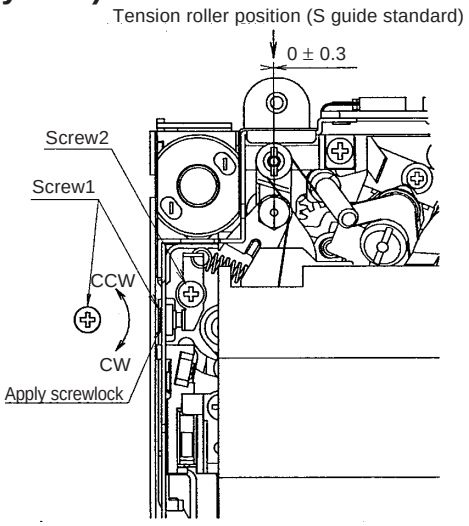


Fig. 4. Check (tape exists)

6-5. Checking and adjustment of tension roller position in record (playback) mode

DC3V, without cassette controller assembly (Independent Mechanism)

(1) Checking

Before winding the 60-min tape make sure that the tension roller is in the same position as S guide as shown in Fig. 4.

If not, take out the tape and adjust in the following procedure.

(2) Adjustment (Fig. 5)

1. Set the playback mode without loading the tape.
2. Loosen the screw 3 slightly (to such an extent that the tension band holder 4 can be moved).
3. If the tension roller is inside from the specified position, shift the tension band holder 4 in the arrow Ⓐ direction. If the tension roller is outside, shift the tension band holder in the arrow Ⓑ direction, and fix with the screw 3. (Proper shift must be 0.2 to 0.6mm outside from the specified position.)
4. Check the position by the procedure described in item (1) Checking above.
5. If the position is not specified position, adjust again.

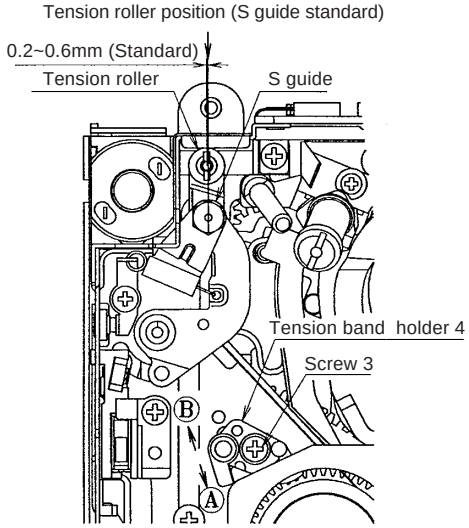


Fig. 5. Position adjustment (tape does not exist)

6-6. Checking of supply S reel base no-load torque

DC3V, without cassette controller assembly (Independent Mechanism)

(1) Remove the cassette controller assembly, then apply DC3V to the loading motor and put the system into L. start mode (refer to 8-1).

(2) Move the swing arm toward the Tu reel base side.
Be careful not to cause damage to the gears and other parts in the process. (Fig. 6)

(3) Set a back tension measurement reel hub on the S reel base.

(4) Using a dial tension gauge, pull the string in the A direction, then confirm that the tension is within the standard.

<FF back tension standard>

(If the tension fluctuates, read its center value.)

30mN or less

6-7. Checking of loading back tension

DC3V, without cassette controller assembly (Independent Mechanism)

(1) Remove the cassette controller assembly, then apply DC3V to the loading motor and put the system into L. start mode.
(refer to 8-1)

(2) Move the swing arm toward the S reel base side. Be careful not to cause damage to the gears and other parts in the process. (Fig. 7)

(3) Set a back tension measurement reel hub on the Tu reel base.

(4) Using a dial tension gauge, pull the string in the A direction, then confirm that the tension is within the standard.

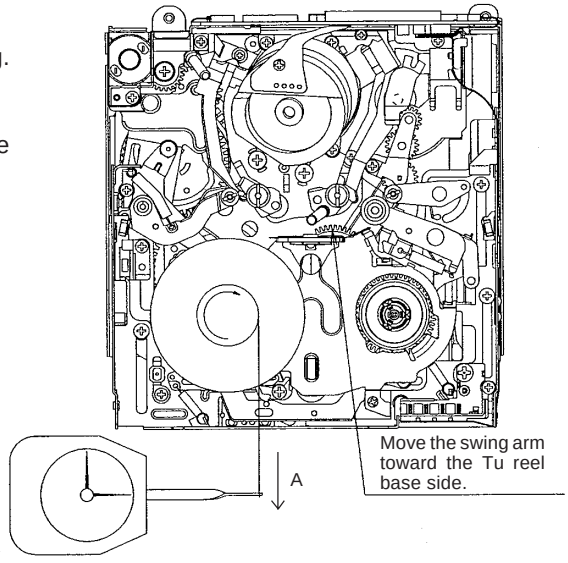


Fig. 6. S reel base no-load torque measurement method

<REW back tension standard>

(If the tension fluctuates, read its center value.)

15 ± 12mN

6-8. Checking of winding Tu reel base ratchet torque

DC3V, without cassette controller assembly (Independent Mechanism)

(1) Remove the cassette controller assembly, then apply DC3V to the loading motor and put the system into standby mode. (refer to 8-1)

(2) Move the swing arm toward the S reel base side.
Be careful not to cause damage to the gears and other parts in the process. (Fig. 8)

(3) Set a back tension measurement reel hub on the Tu reel base.

(4) Using a dial tension gauge, pull the string in the A direction, then confirm that the tension is within the standard.

<Winding Tu reel base ratchet torque standard >

(If the tension fluctuates, read its center value.)

100mN or less

6-9. Checking of rewinding playback (VS-REW) back tension

DC3V, without cassette controller assembly (Independent Mechanism)

(1) Remove the cassette controller assembly, then apply DC3V to the loading motor and put the system into rewinding playback (VS-REW) mode. (refer to 8-1)

(2) Move the swing arm toward the S reel base side.
Be careful not to cause damage to the gears and other parts in the process.

(3) Set a torque gauge on the Tu reel base.

(4) Turning the torque gauge to counterclockwise (1 turn for 3 seconds), then confirm that the torque is within the standard.

<Rewinding playback (VS-REW) back tension standard value>

(If the tension fluctuates, read its center value.)

0.70 +0.6/-0.3mN·m

6-10. Checking of pinch pressing force

DC3V, without cassette controller assembly (Independent Mechanism)

(1) Set the pinch roller pressing force measuring thread on the pinch lever (position A , Fig. 9).

(2) Set the mechanism to the playback mode, press the pinch roller against the capstan axis.

(3) Fit the tension gauge to the pinch roller pressing force measuring thread, pull in the arrow B direction shown in Fig. 11 to separate a little the pinch roller from the capstan axis.

(4) Gradually return the pinch roller, and when the pinch roller contacts parallel the capstan axis, read the value (see Fig. 10) to make sure that the value conforms to the standard shown below.

<Standard>

1.8 +0.3/-0.5N

<Caution>

After making this measurement, quickly release the system from playback mode and remove the pinch roller from the capstan shaft. (If the pinch roller is left fitted onto the capstan shaft for a long time, the pinch roller will be deformed.)

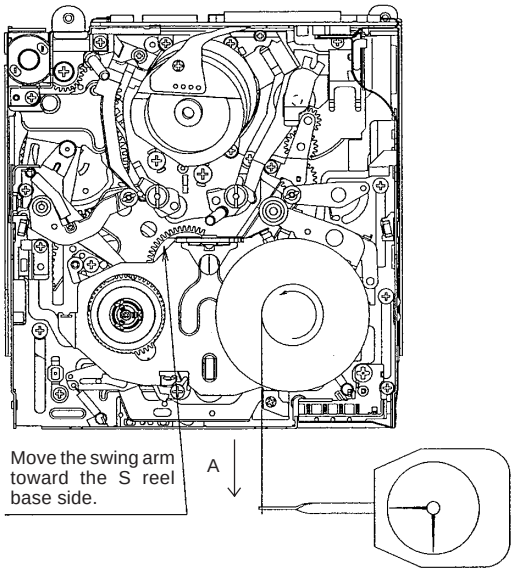


Fig. 7. Loading back tension measurement method

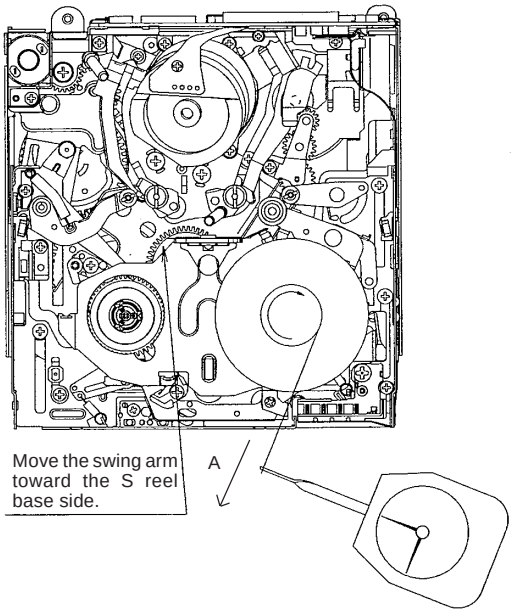


Fig. 8. Winding Tu reel base ratchet torque measurement method

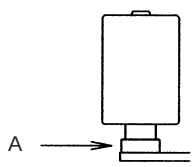


Fig. 9

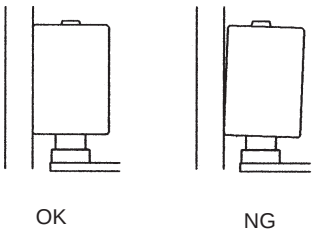


Fig. 10

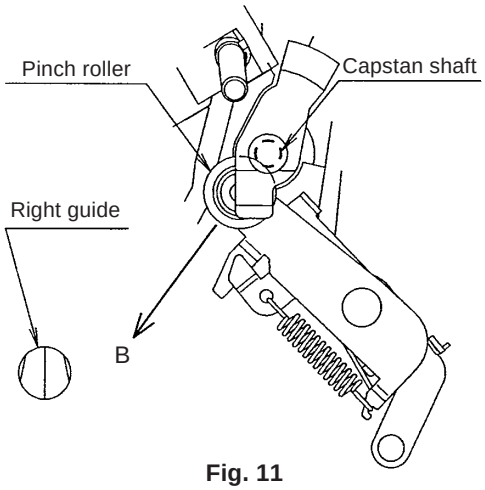


Fig. 11

7. TAPE RUNNING ADJUSTMENT

7-1. Adjustment locations

<Replacement parts>
· T roller, arm
· Tu guide, arm
· Slide chassis

→ Adjust the height of only replaced parts with the adjusting jig. Adjustment procedure 7-2

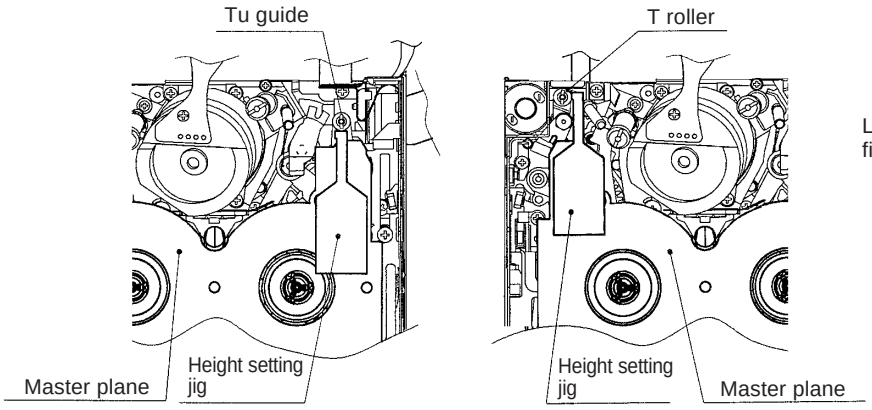
<Replacement parts other than those shown above>
· S guide
· Pole base
· Guide roller
· Drum assembly
· Capstan motor, etc.

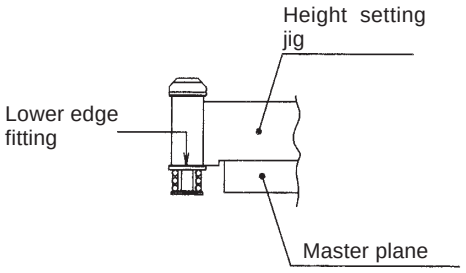
→ Height presetting is not necessary.

→ Cassette controller installation → Running adjustment preparation Adjustment procedure 7-3 → Running rough adjustment Adjustment procedure 7-4 → Running final adjustment Adjustment procedure 7-5

7-2. Running height adjustment

· After replacement of T roller or Tu guide adjust the height . (Adjust only the replaced parts.)
· After height adjustment do not turn the T roller. If crease is found on the tape of Tu guide, remove the crease by rotating. (As for details refer to the “Running rough adjustment”.)
· After height adjustment of T roller or Tu guide, apply Screw lock to an end of shaft. (After replacement of S guide apply Screw lock to same point, too.)





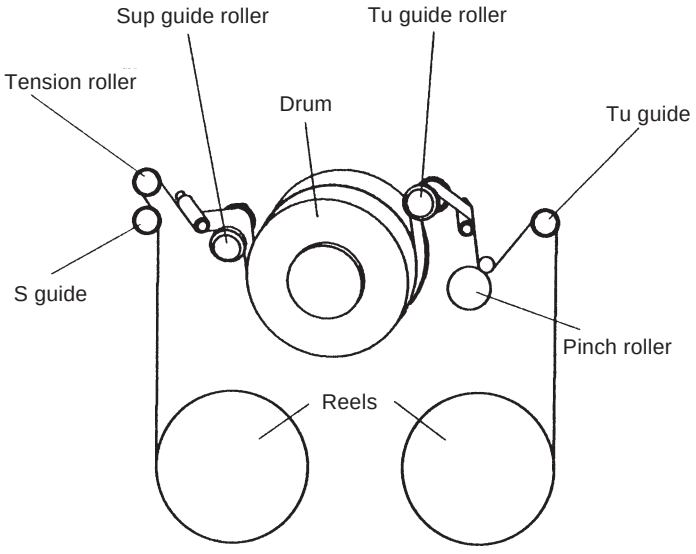
Fit height the par on low edge fitting.
After setting adjustment jigs, turn T roller and S guide counterclockwise to 225°.

7-3. Preparation for tape running adjustment

Meters, jig… Oscilloscope, Adjustment remote control, Height adjustment screw driver, Alignment tape (for tape running adjustment, for switch point adjustment), Master plane, Height adjustment jig.

<Method and description>

(1) Clean the tape running surface (especially, adequately clean the drum surface and the lower drum helicam surface).
(2) Attach the cassette controller.
(3) Connect an oscilloscope to each TP on the relay circuit board.
(4) Turn the AC adapter power ON.
(5) Using the adjustment remote control unit, put the system TEST mode T-05.
(6) Replay the alignment tape for running adjustment, and make sure that the tape is running in the SP mode.
(7) Check the oscilloscope playback envelope, then, at +1/4 shift and -1/4 shift, check whether all of it is flat. If it is not, perform the following adjustment so that it becomes flat.
(Each time you push the PLAY key, the shift will change;
+1/4 shift → Normal → -1/4 shift → Normal, in order.)



7-4. Running rough adjustment

(With cassette controller)

1) Su, Tu guide roller height adjustment

<Method and description>

(1) Loosen the guide roller lock screw, then tighten loosely so that the roller turns easily.
(2) Replay an alignment tape, and adjust the Sup, Tu guide roller so that the envelope sides of entrance and exit are flat.
(3) Perform ± 1/4 shift, then, as in the above case, adjust until the envelope becomes flat.
* If running is difficult for the entrance changed, turn the T roller to counter clockwise 180°. (refer to Fig. 1)

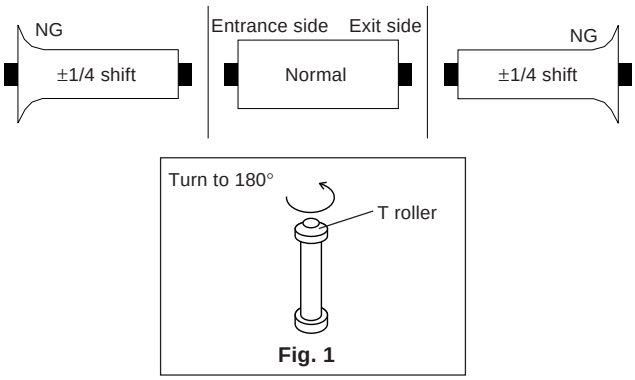
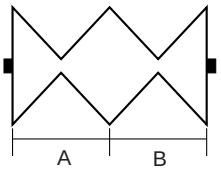


Fig. 1

2) Check of V/SR envelope wave form

<Method and description>

(1) Confirm that the envelope waveform peaks in V/SR mode are uniform.
(2) If they are not uniform, fine-adjust the guide roller and the Tu guide.

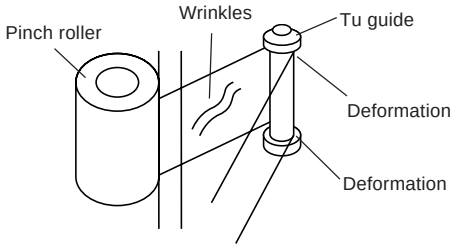


Adjust so that A ≒ B.

3) Check of tape wrinkles

<Method and description>

(1) Check that the tape is not distorted between the Tu guide and pinch in the PB mode and the V/SR mode.
⇨If crease is found, make an adjustment in the range of ±180°.
⇨After adjustment apply Screw Lock.



4) Check the rising time of the envelope wave form

<Method and description>

(1) Check the rising time of the envelope when switching from V/SR mode to PB mode. (Within 5 sec)
(2) Check the rising time of the envelope when switching from STOP mode to PB mode. (Within 5 sec)

7-5. Final running adjustment

(With cassette controller)

1) Adjustment of Sup and Tu guide roller height

<Method and description>

(1) Perform ± 1/4 shift, then if the envelope wave's ratio of MAX. to MIN. are 60% or less, adjust again the height of guide roller. (Refer to Fig. 2)
(2) Finally adjust the lock screw of Sup and Tu guide roller.
(3) Once perform unloading and then loading to set the PB mode, and make sure that the envelope waveform does not change.

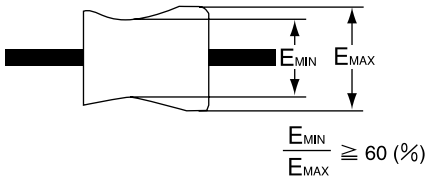


Fig. 2

2) Adjustment of playback SWP

<Method and description>

(1) Playback the alignment tape for switch point adjustment.
(2) Perform SWP automatic adjustment with adjustment remote control.

* When replacing the mechanism and drum, adjust the phase and equalizer using the adjustment remote control. (Refer to "9. ADJUSTMENT THE ELECTRICAL CIRCUIT".)

8. MECHANICAL SECTION ASSEMBLY AND PARTS REPLACEMENT (DISASSEMBLY AND REASSEMBLY)

Mechanical section disassembly and reassembly are explained in this section.
For removal of the cabinet, etc., refer to **3. DISASSEMBLY OF THE SET.**

<Precautions>

1. Always replace cut washers that have been removed, for example in parts replacement, with new ones.
2. When reassembling, be careful not to allow screws, washers or foreign matter to enter. They can cause mechanical misoperation.
3. Use the cleaning liquid, oil, grease and screw lock that are specified below. Use of any other kind can cause mechanical misoperation.

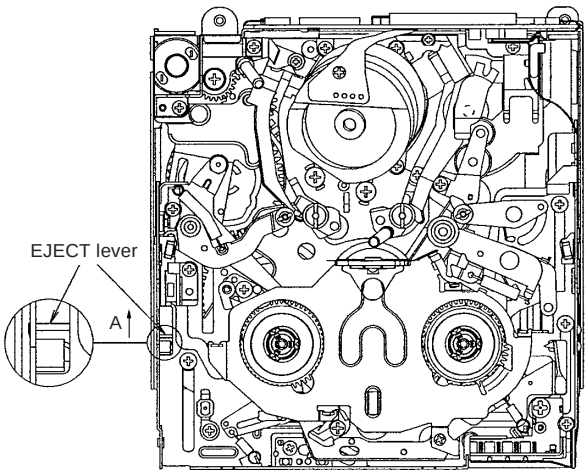
Oil: Cosmo Petroleum : Cosmo Hydro HV22	Screw lock: Three Bond :1401B
Grease: Dow Corning : Moly Coat YM-103	Cleaning liquid: Industrial-use ethyl alcohol

8-1. On the mechanical modes

When operating the mechanism separately, apply DC3~4V to the loading motor.
(When the mechanism is connected to the main PWB, do not apply external voltage to the loading motor. It may cause operational problems.)

(1) EJECT mode

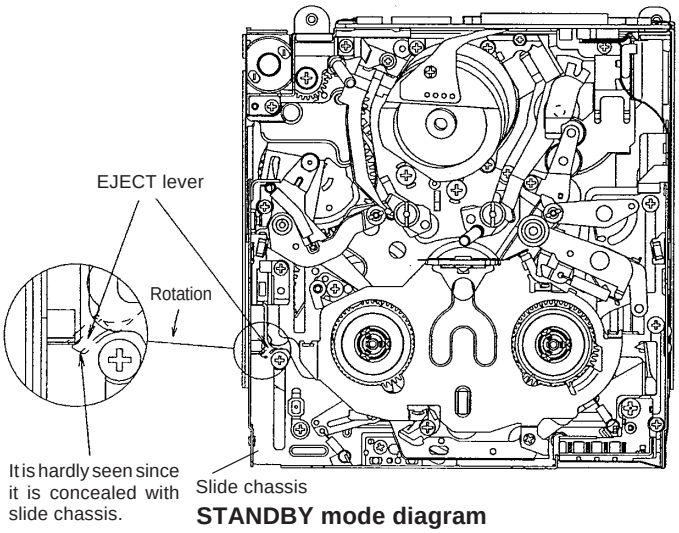
The mechanism position to take out the cassette where the EJECT lever is extremely shifted in the A direction. (It is impossible to lock the cassette controller assembly in this mode.)



EJECT mode diagram

(2) STANDBY mode

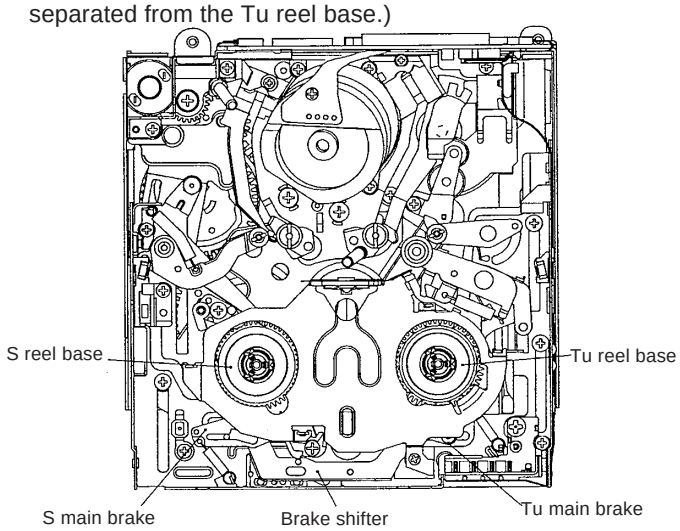
The mechanism position to set the cassette where the slide chassis is at the farthest position from the drum and the EJECT lever is in clockwise rotated position (position where the cassette controller assembly can be locked).



STANDBY mode diagram

(3) LOADING START mode

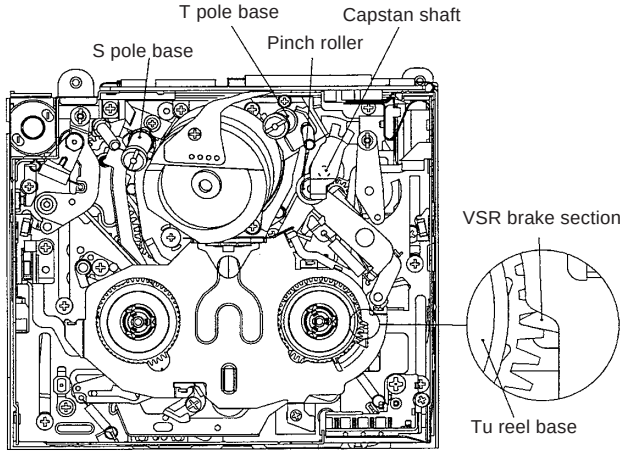
This is the mode where the tape is wound around the winding reel when a cassette with visible wind start leader tape is loaded. (The brake shifter moves to the left, the S main brake is separated from the S reel base and the Tu main brake is separated from the Tu reel base.)



LOADING START mode diagram

(4) REWINDING (VSR) mode

The mechanism position to rewind the tape (fast rewinding playback). The S and T pole base is pressed, the pinch roller is pressed to the capstan axis, the brake shifter VSR brake section engages with the Tu reel base gear.

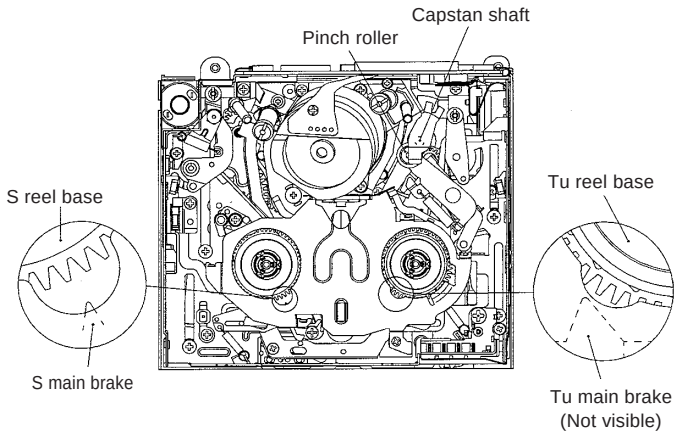


REWINDING (VSR) mode diagram

(5) PLAYBACK (RECORD, FF, VSF) mode

The mechanism position for playback, record, FF and fast feed playback.

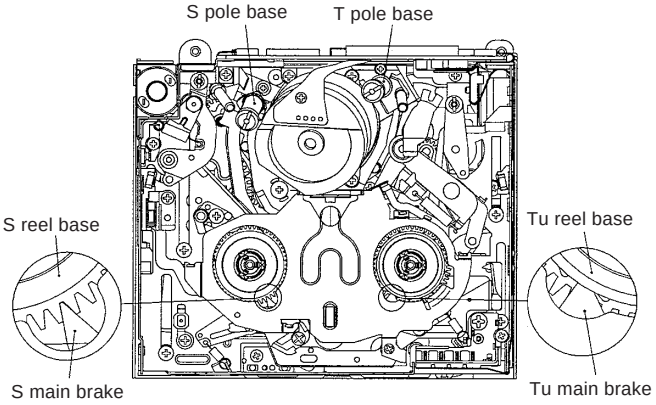
The pinch roller is pressed to the capstan axis, and the S/Tu main brake is separated from the S/Tu reel base.



PLAYBACK mode diagram (RECORD, FF, VSF)

(6) STOP mode

The system is in the STOP (Rec Lock in CAMERA mode) position; the S and the T pole bases are snap-fitted to the drum base, the S brake is in contact with the S reel base, and the Tu brake is in contact with the Tu reel base.



STOP mode diagram

8-2. Cassette controller assembly

<Removing>

(1) Apply DC3V to the loading motor to enter the standby mode.
Press the lock lever in the arrow direction to raise the cassette controller. (See Fig. 1; Ⓐ or Ⓑ direction.)

(2) Turn the damper lever in the arrow Ⓒ direction to release the engagement of the damper bar. (See Fig. 2.)

(3) Remove two screws Ⓔ, and remove the down guide Ⓓ in the arrow Ⓕ direction. (See Figs. 3 and 4.)
Take care that the slide chassis is provided with the down guide positioning Ⓖ or Ⓗ.

(4) Slide the cassette controller in the arrow Ⓘ direction, remove the outer link shaft (both sides) toward the inside of the mechanism, and turn the cassette controller in the arrow Ⓙ direction. (See Fig. 5.)

(5) Slide the cassette controller in the arrow Ⓚ direction. (See Fig. 6.)

<Installing>

(1) Apply DC3V to the loading motor to enter the standby mode.

(2) For assembly, reverse the removing procedure (5) thru (2).
Tightening torque of two screws Ⓔ: 40±4mN.m

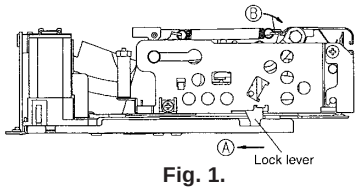


Fig. 1.

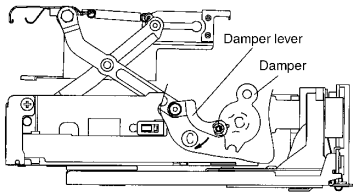


Fig. 2.

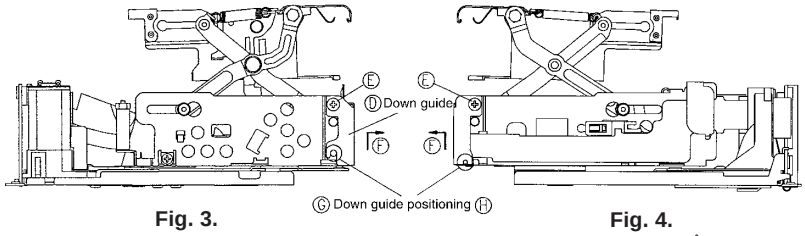


Fig. 3.

Fig. 4.

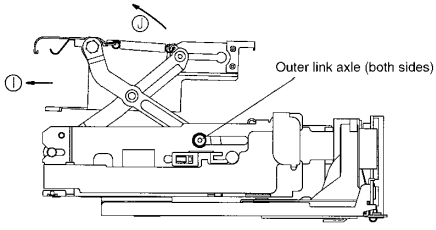


Fig. 5.

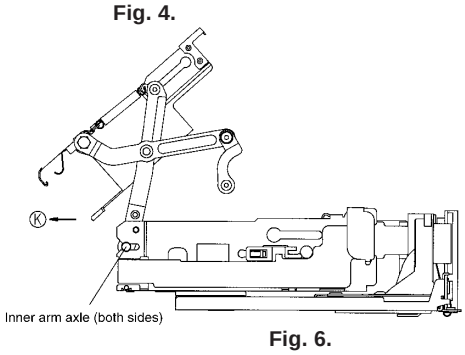


Fig. 6.

8-3. How to operate with the circuit board without the cassette controller assembly.

In this method, if the procedure is followed incorrectly there is danger of damaging the mechanism and the tape, so except in special cases, such as when measuring the VSR torque, do not perform this procedure. Normally operate this unit with the cassette controller assembly attached.
Be sure to follow each caution mentioned.

(1) Apply DC3 ~ 4V to the loading motor to enter the standby mode.
(2) Securely press the movable piece Ⓛ of the down SW with cellophane tape or similar to turn on SW. (Take care that the movable piece turns only in the shown arrow direction.)

Note: To enter REC mode, press the pin of the recognition switch Ⓜ.
(Unnecessary in other modes.)

(3) Set the test mode (T-01) with the adjustment remote controller without putting the tape, and the mechanical operation will become possible with the mode key.
(4) For ejection, remove the tape of (2).

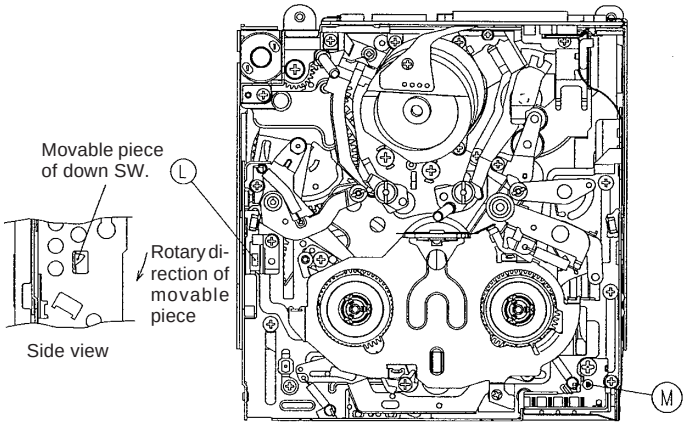


Fig. 7. LOADING START mode

8-4. Phase matching

Referring to Figs. 8 and 9, align the phase for the following parts.
(1) Ejection lever (2) Election operation lever (3) Mode SW (4) Main cam (5) Subcam
Note: Before disassembly, sufficiently check the marker position.
Note: When installing the joining gears, verify that the phase aligning holes of the main cam and subcam are aligned to the hole of the chassis.
Note: After the phase is aligned, turn the mode SW with hand, and verify that it turns nearly one turn.
(After verification, return it to the original position.)

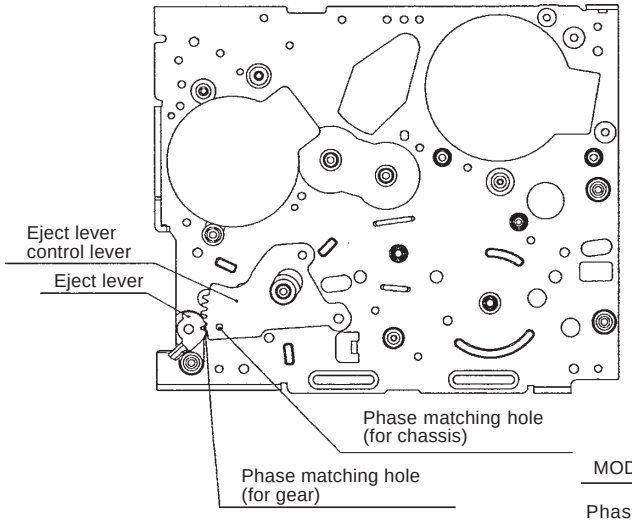


Fig. 8

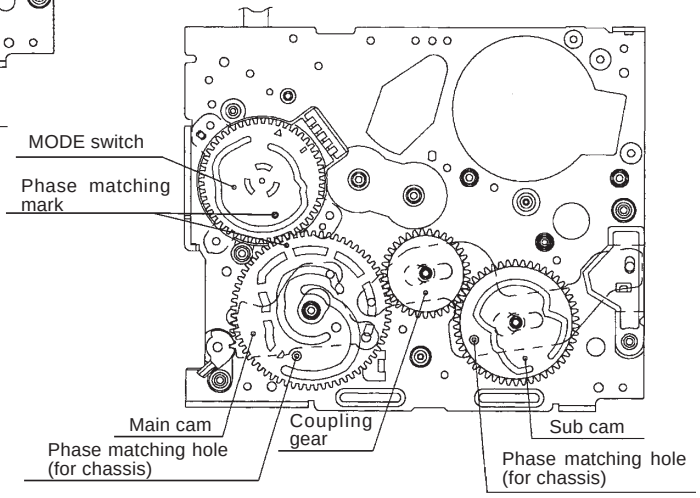


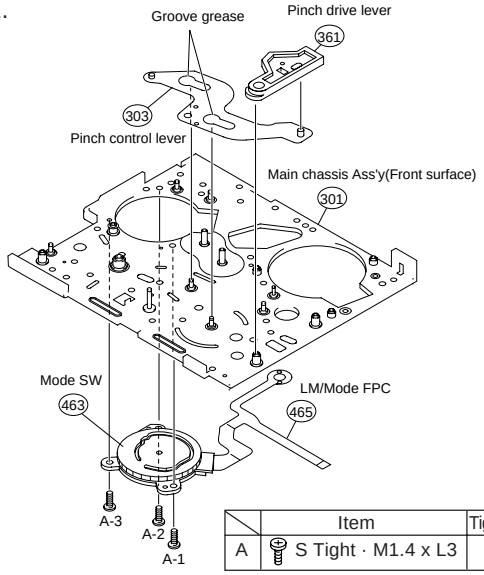
Fig. 9

8-5. Reassembly

8-5-1. Reassembly in side of the main chassis.

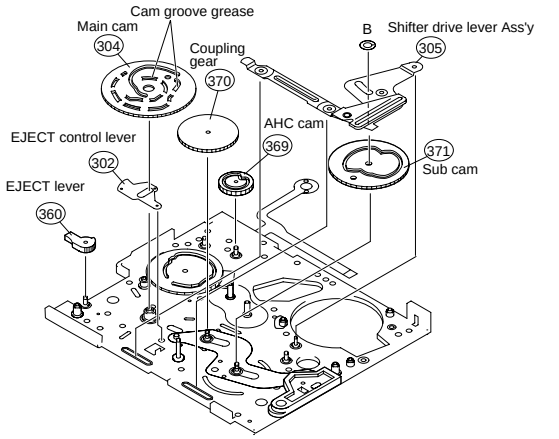
Note) Numbers before part names are given as a guide to the order of assembly.
As for greasing/oiling/cleaning places refer to the attached drawings (Grease/Oil application side of the main chassis).

1.



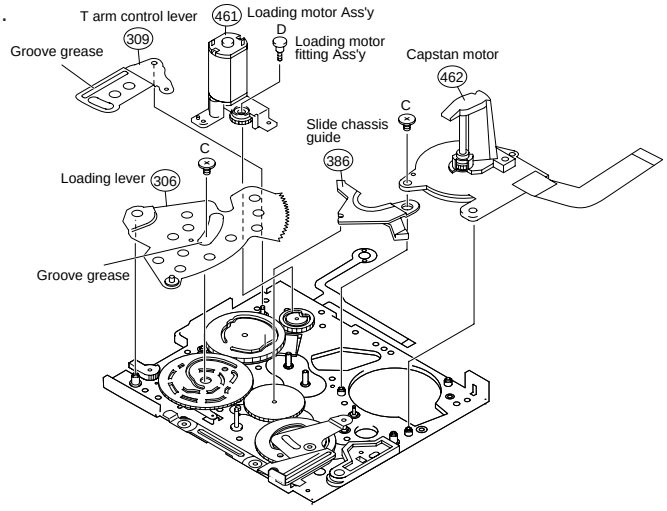
	Item	Tightening torque	Quantity
A	S Tight · M1.4 x L3	70mN·m	3

2.



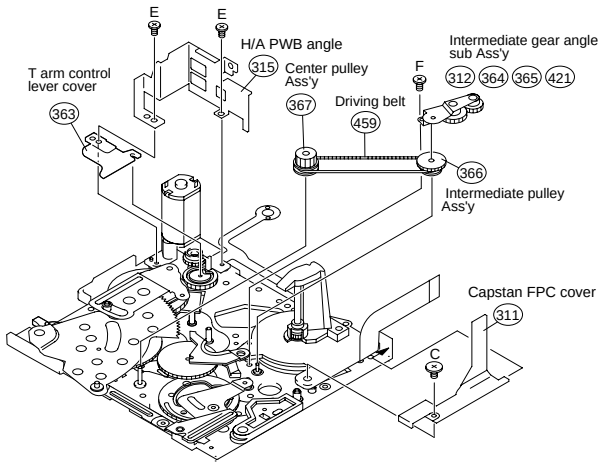
	Item	Tightening torque	Quantity
B	CWø1.2-ø3.0-t0.25	————	1

3.



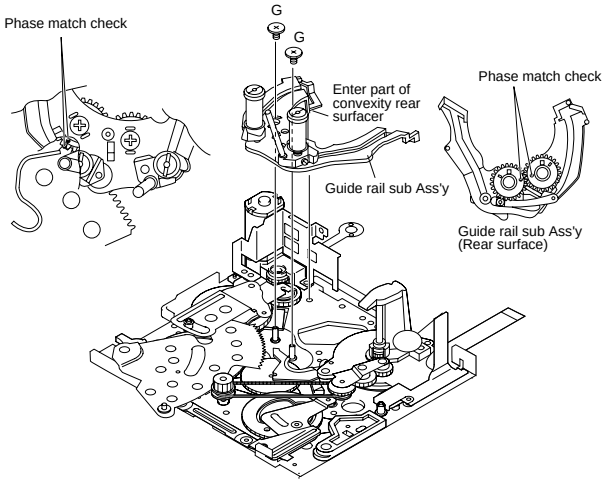
	Item	Tightening torque	Quantity
C	Special screw · M1.4 x L1.6	40mN·m	2
D	Special screw with step· M1.4 x L6.25	70mN·m	1

4.



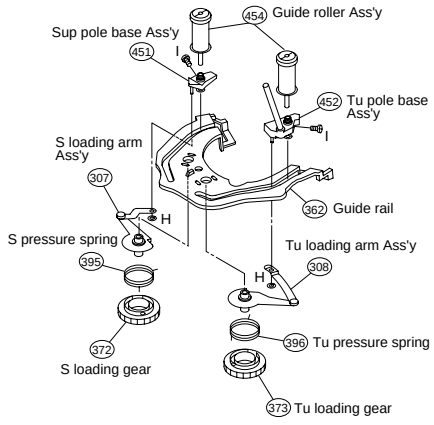
	Item	Tightening torque	Quantity
C	Special screw · M1.4 x L1.6	40mN·m	1
E	S Tight · M1.4 x L4	70mN·m	2
F	S Tight · M1.4 x L2	70mN·m	1

5.



	Item	Tightening torque	Quantity
G	Special head screw · M1.4 x L1.5	40mN·m	2

6.

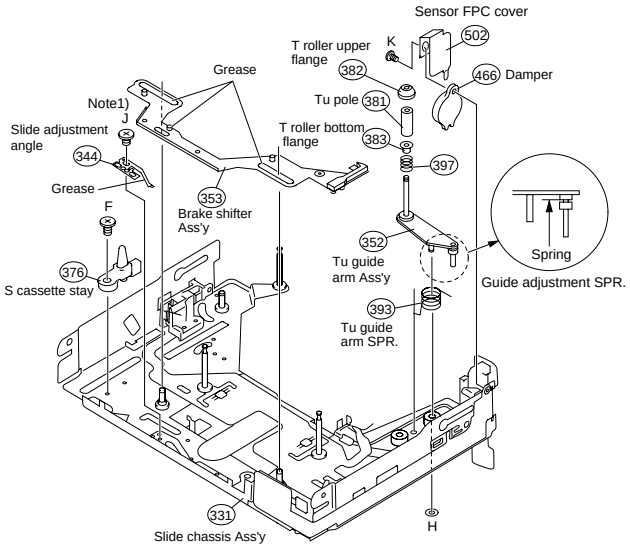


	Item	Tightening torque	Quantity
H	CWø0.7-ø2.2-t0.25	————	2
I	Special screw · M1.2 x L1.8	5mN·m (Tentative tightening)	2

8-5-2. Reassembly in side of the Slide chassis.

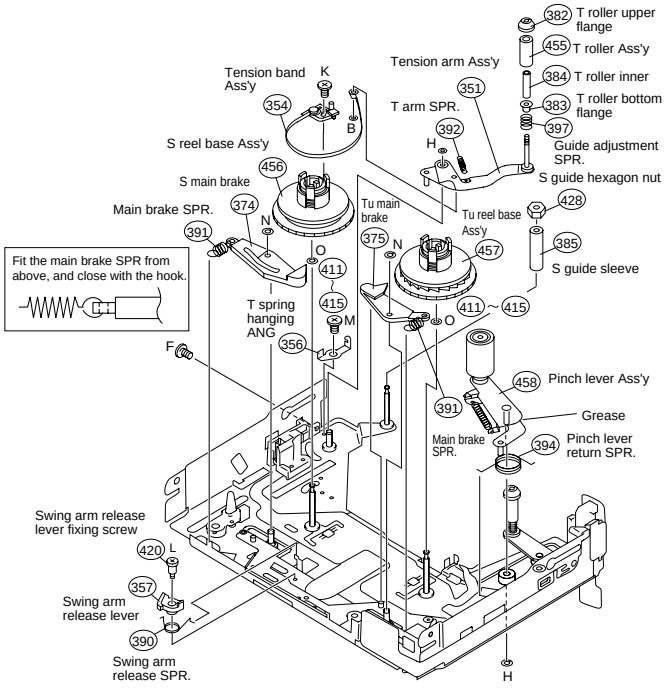
Note) Numbers before part names are given as a guide to the order of assembly.
As for greasing/oiling/cleaning places refer to the attached drawings (Grease/Oil application side of the slide chassis)

1.



	Item	Tightening torque	Quantity
F	S Tight · M1.4 x L2	40mN·m	1
H	CWø0.7-ø2.2-t0.25	———	1
J	Special screw · M1.2 x L1 Note 1: Use the No. 00 bit.	40mN·m	1
K	Special head screw · M1.4 x L2	40mN·m	1

2.



Note 1: Take care for scratch and hit mark on 381, 382, 383, 384 and 455. Handle the tension band with care against deformation.
Note 2: After lightly tightening 428 arm area against deformation, apply screw-lock on the tip of the shaft.

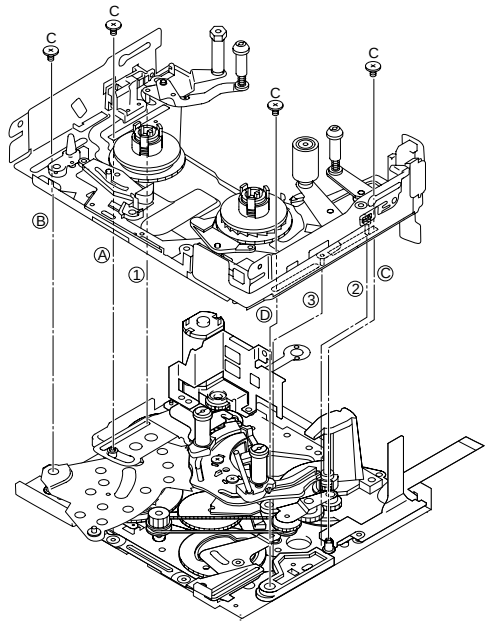
	Item	Tightening torque	Quantity
B	CWø1.2-ø3.0-t0.25	———	1
F	S Tight · M1.4 x L2	40mN·m	1
H	CWø0.7-ø2.2-t0.25	———	2
K	Special head screw · M1.4 x L2	40mN·m	1
L	Special screw with step· M1.4 x L1	40mN·m	1
M	Type 2 minuteness M1.4 x L1	40mN·m	1
N	CWø0.7-ø1.8-t0.1	———	2
O	Wø1.2-ø2.5-t0.3	———	2

8-5-3. Main chassis assembly and slide chassis assembly assembling method

(1) Enter the coupling mode. (In this position, the cam groove of the T arm operation lever in the figure is parallel to the side of the main chassis, and the ball base is slightly moved.)

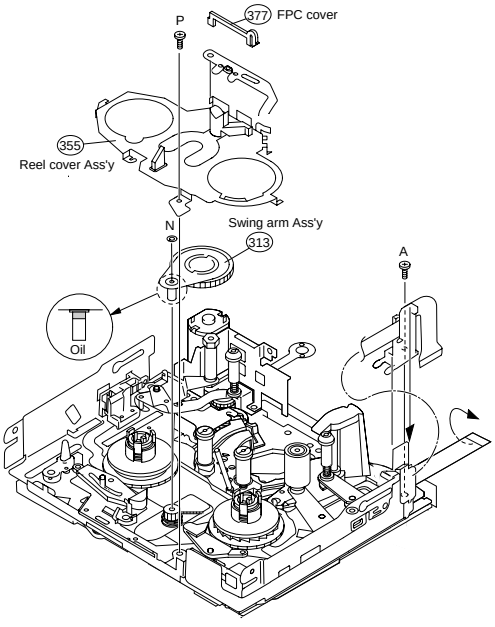
(2) Insert the slide chassis side operation pins (① tension arm, ② Tu guide arm, ③ pinch lever) in the position shown below at the main chassis side, move the slide chassis in the arrow direction, using Ⓐ to Ⓓ as guides, insert the loading lever operation pin into the groove of slide chassis, and install with the 4 screws.

1.



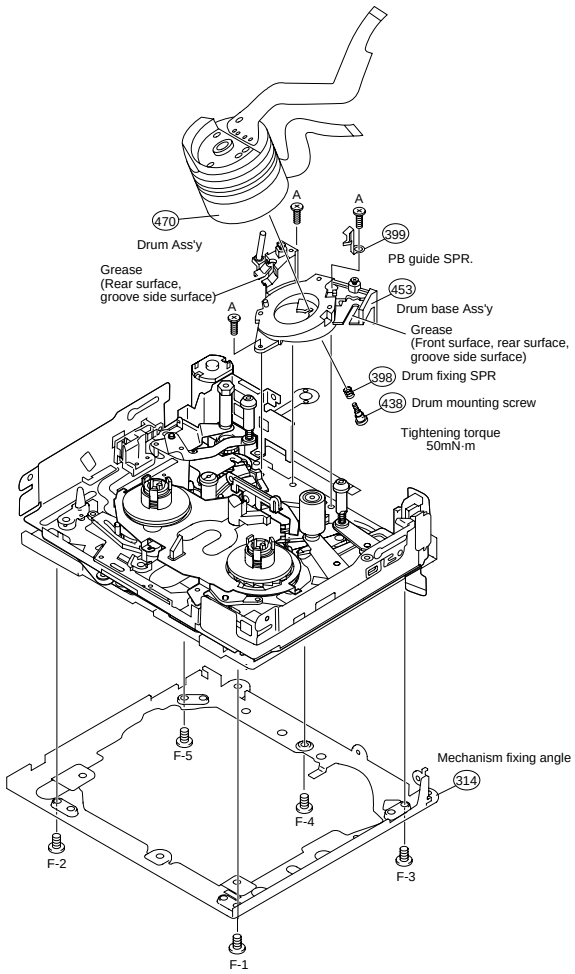
	Item	Tightening torque	Quantity
C	Special screw · M1.4 x L1.6	40mN·m	4

2.



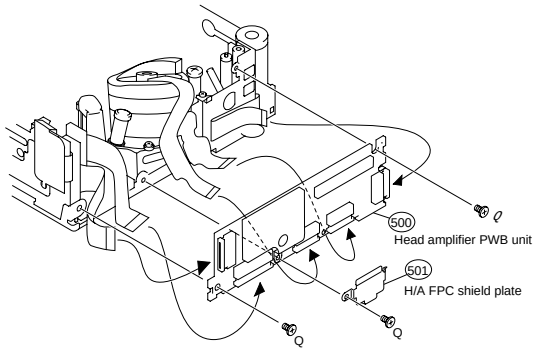
	Item	Tightening torque	Quantity
A	S Tight · M1.4 x L3	40mN·m	1
N	CWø0.7-ø1.8-t0.1	———	1
P	Type 1 minuteness M1.4 x L1	40mN·m	1

3.



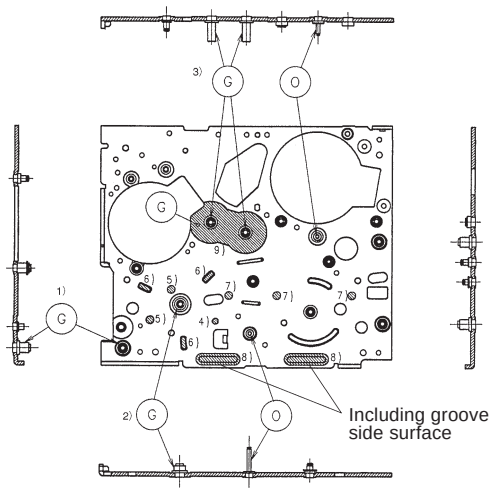
	Item	Tightening torque	Quantity
A	S Tight · M1.4 x L3	70mN·m	3
F	S Tight · M1.4 x L2	70mN·m	5

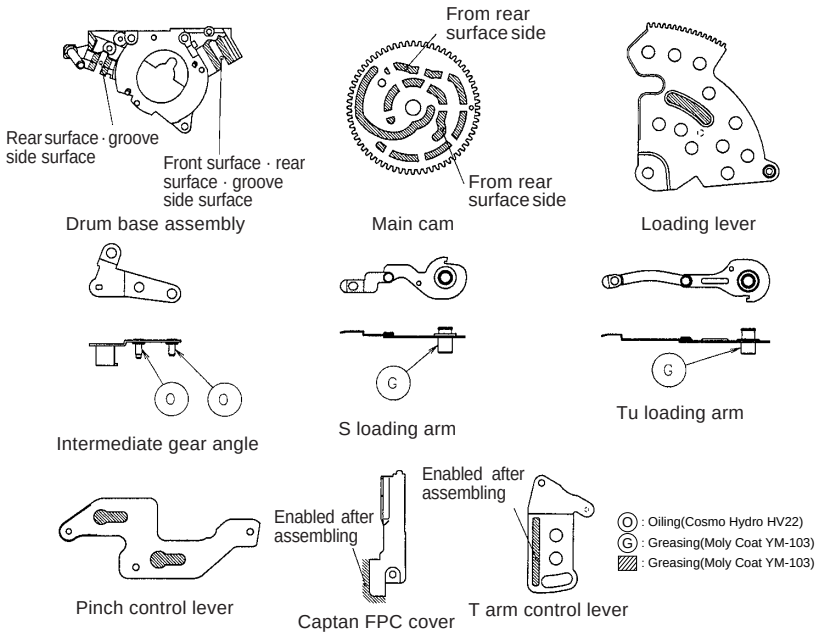
4.



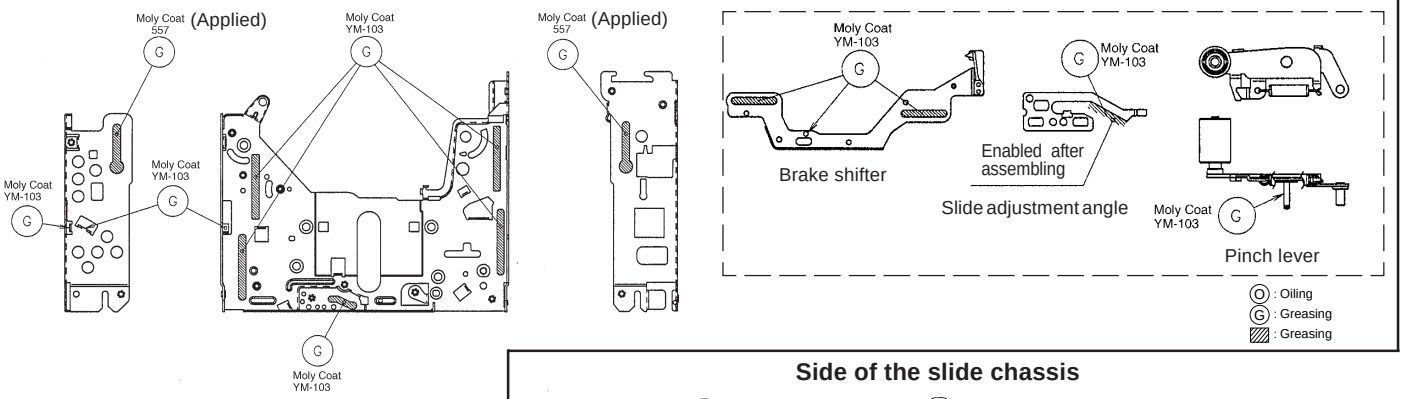
	Item	Tightening torque	Quantity
Q	Special screw · M1.4 x L2	40mN·m	3

GREASE/OIL APPLICATION

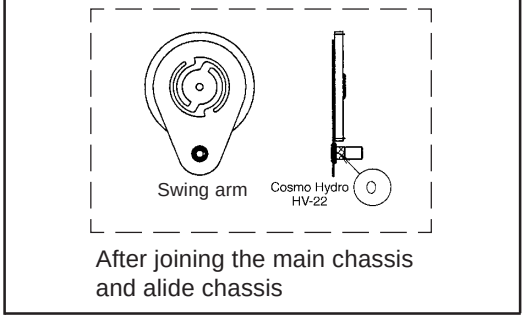




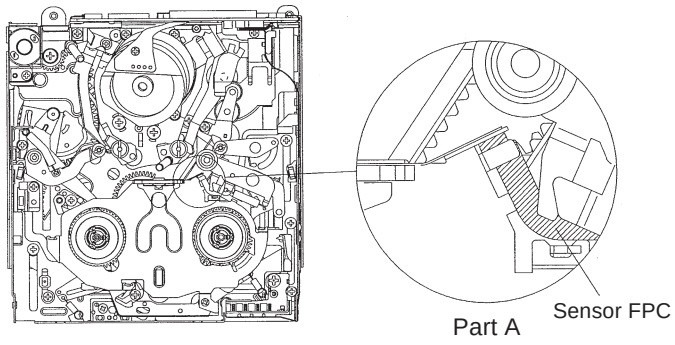
Side of the main chassis



Side of the slide chassis



After joining the main chassis and alide chassis



Sensor FPC wiring

8-6. Removing the cassette

(1) Apply DC3V to the loading motor unload slightly.
(2) After the tape is slackened, turn the rotor (lower side of mechanism) of capstan motor to tighten the tape. (Arrow direction, Fig. 1)
(3) Repeat the operations (1) and (2). After the pole base has been completely unloaded, ascertain that the tape is not loose.
(4) Finally apply again DC3V to the loading motor, so that the cassette controller ejects.
(5) Take out the cassette.

Note) DC3V is applied to the loading motor as shown Fig 1. Then, the mechanism moves in the unloading direction.

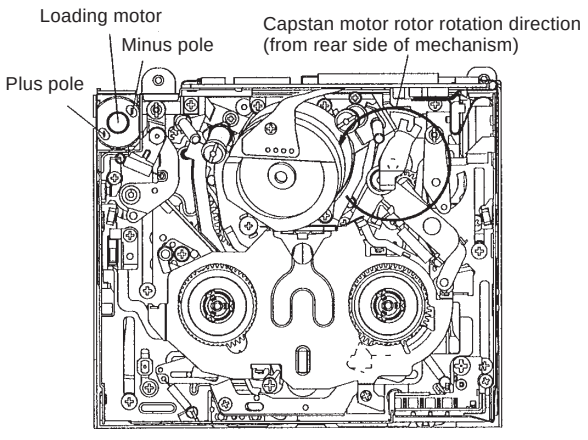


Fig. 1

9. ADJUSTING THE ELECTRICAL CIRCUITS

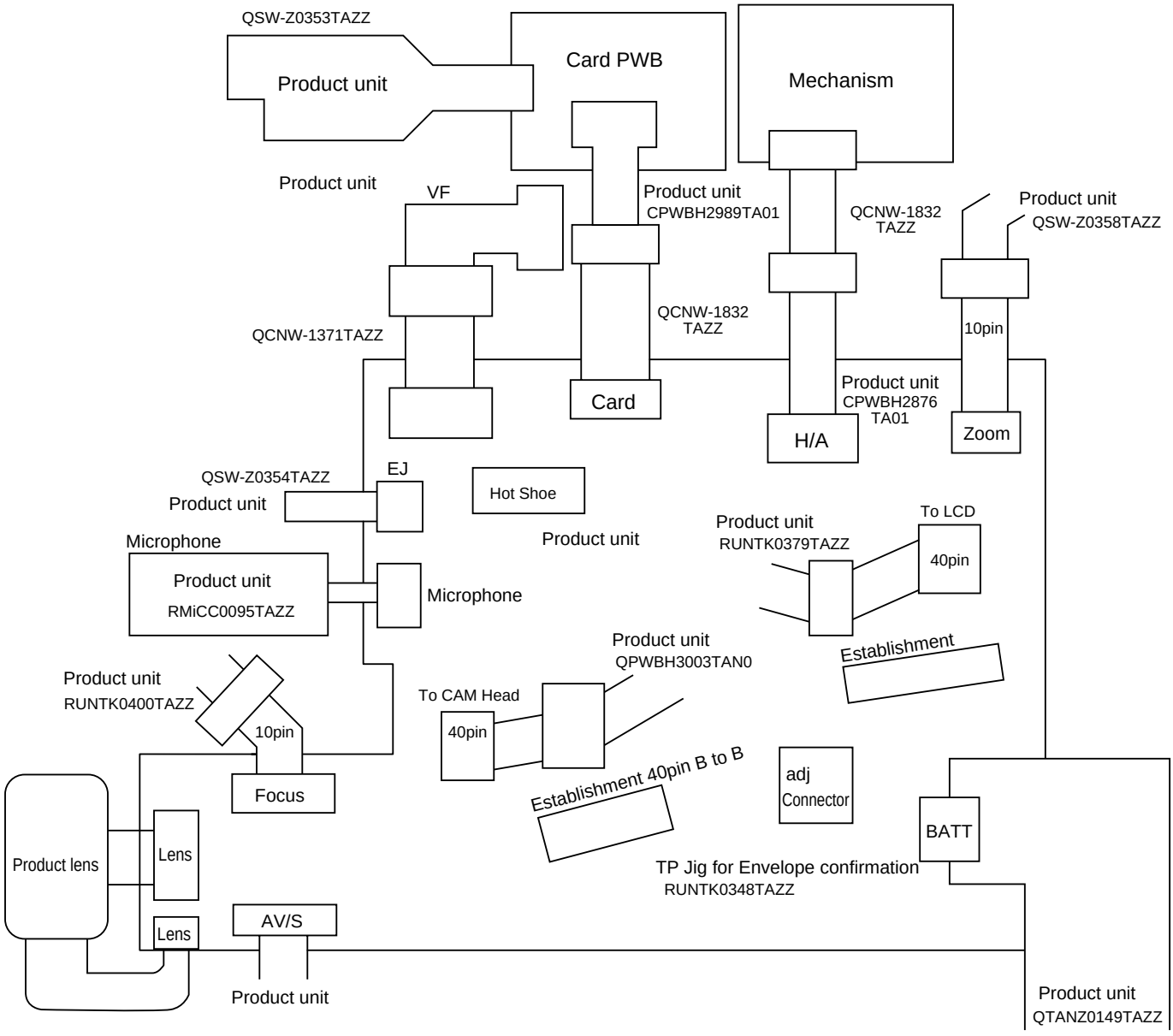
Before starting the electric circuit adjustment

- The adjustment methods described herein are used, in most cases, when the expendable mechanical parts, including the video head, have been replaced, at which time the electrical circuits need to be readjusted. Before adjusting the electrical circuits, make sure that the mechanism works properly (i.e., the mechanism is properly adjusted). Incase of the occurrence of any problem to the electrical circuits, be sure to use the specified measuring instruments to locate the area to which the problem is occurring, and then take the necessary action, including repair, replacement or adjustment, exactly as instructed in the electrical adjustment methods that will follow.
  Do not attempt to make adjustments without using the proper measuring instruments.
- This machine is configured so that the electrical circuits inside its PWB unit are composed, for the most part, of high-density, small surface-mounted component parts for downsized machine body.
  To perform repair service or parts replacement, do so using a soldering iron, but in as short a time as possible; this is because surface-mounted component parts are generally so small in size and susceptible to heat, as compared with the large discrete parts used in TV sets, desk-top video decks, etc., that attempting to heat their electrodes for a longer time than is necessary with a soldering iron may result in their becoming defective.
  This applies particularly when replacing the laminated chip capacitors.
  For this purpose, ceramic soldering irons with a temperature regulator are recommended (iron tip temperature 250°C and soldering time 5 seconds or shorter).

VL-ME100S/H/E Specifications of service jigs

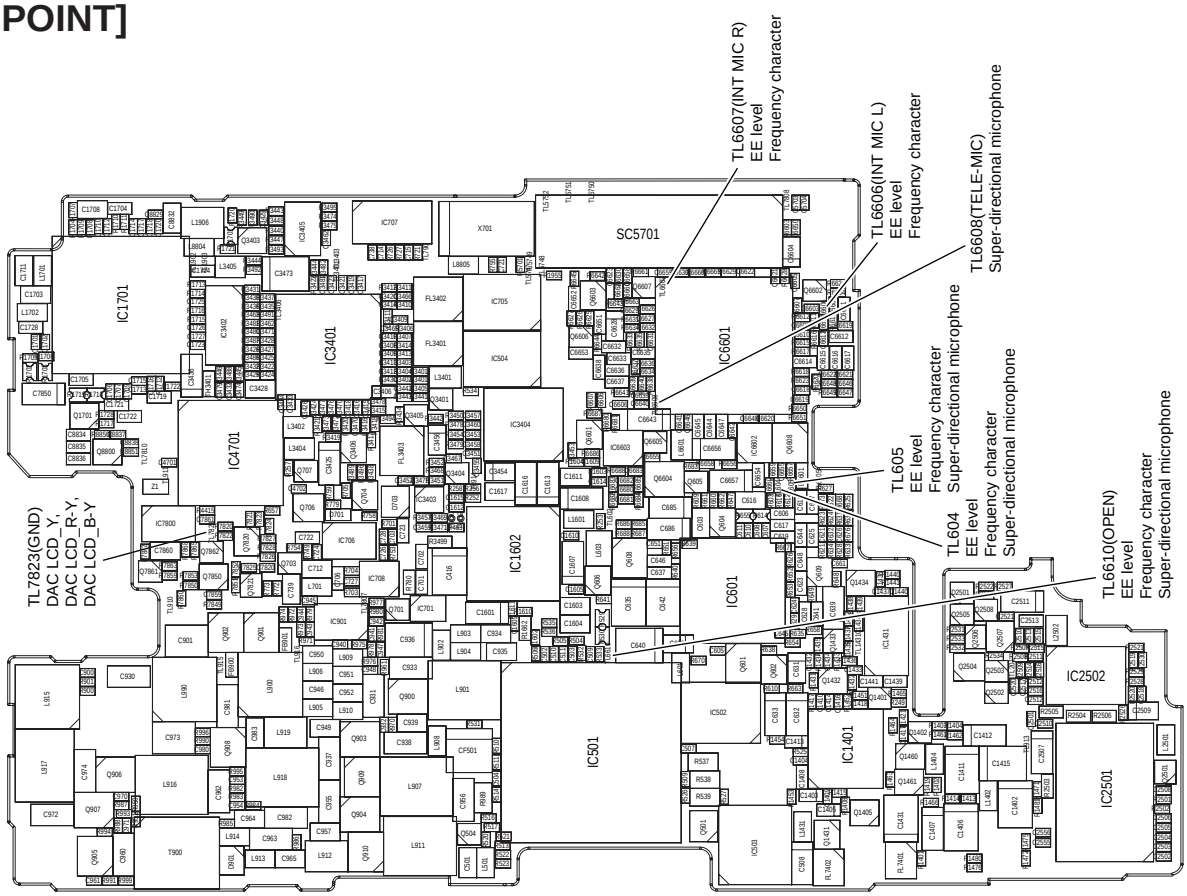
No.	Connection section	Connector REF. No.	No. of pins	New or Continuation	Part cord	Price code
1	H/A PWB–H/A FPC	P306	80B-B	C	QCNW-1832TAZZ	BV
2	H/A FPC–MAIN	SC3301	80B-B		CPWBH2876TA01 Product unit use	AS
3	CARD PWB–CARD FPC	SC3702, SC3703	80B-B		CPWBH2989TA01 Product unit use	AU
4	CARD FPC–MAIN	SC5701	80B-B	C	QCNW-1832TAZZ	BV
5	Power SW–CARD PWB	SC3701	39P,39P		QSW-Z0353TAZZ Product unit use	AV
6	V/F–MAIN	SC8801	22P	N	QCNW-2002TAZZ	BL
7	ZOOM SW–MAIN	SC703	10P	C	QCNW-1769TAZZ	BF
8	EJECT SW–MAIN	SC702	4P		QSW-Z0354TAZZ Product unit use	AK
9	Hot Shoe–MAIN	SC6602	10P		QPWBH2997TAZZ Product unit use	AF
10	Battery Terminal–MAIN	SC900	20B-B		QTANZ0149TAZZ Product unit use	AQ
11	AVS/DV Terminal–MAIN	SC1402	45P		RUNTK0378TAZZ Product unit use	AY
12	Focus Ring Unit–MAIN	SC701	10P	C	QCNW-1769TAZZ	BF
13	Lens Unit–MAIN	SC1501	22P	N	QCNW-2002TAZZ	BL
15	HEAD FPC–MAIN	SC201	40B-B	N	QCNW-2001TAZZ	BY
16	L CAB(TO LCD)–MAIN	SC7801	40B-B	N	QCNW-2001TAZZ	BY
17	TP Jig for Envelope confirmation	SC7800	10B-B	C	RUNTK0348TAZZ	BE
18	Jog SW Unit–LCD PWB	SC3800	6P		QSW-Z0356TAZZ Product unit use	AQ
19	Tilte Unit–LCD PWB	SC805, SC806	8P, 8P		RUNTK0377TAZZ Product unit use	AX
20	CCD PWB–HEAD PWB	SC1–SC11	16P		QPWBH3002TAZZ Product unit use	AE

VL-ME100S/H/E Service jig configuration

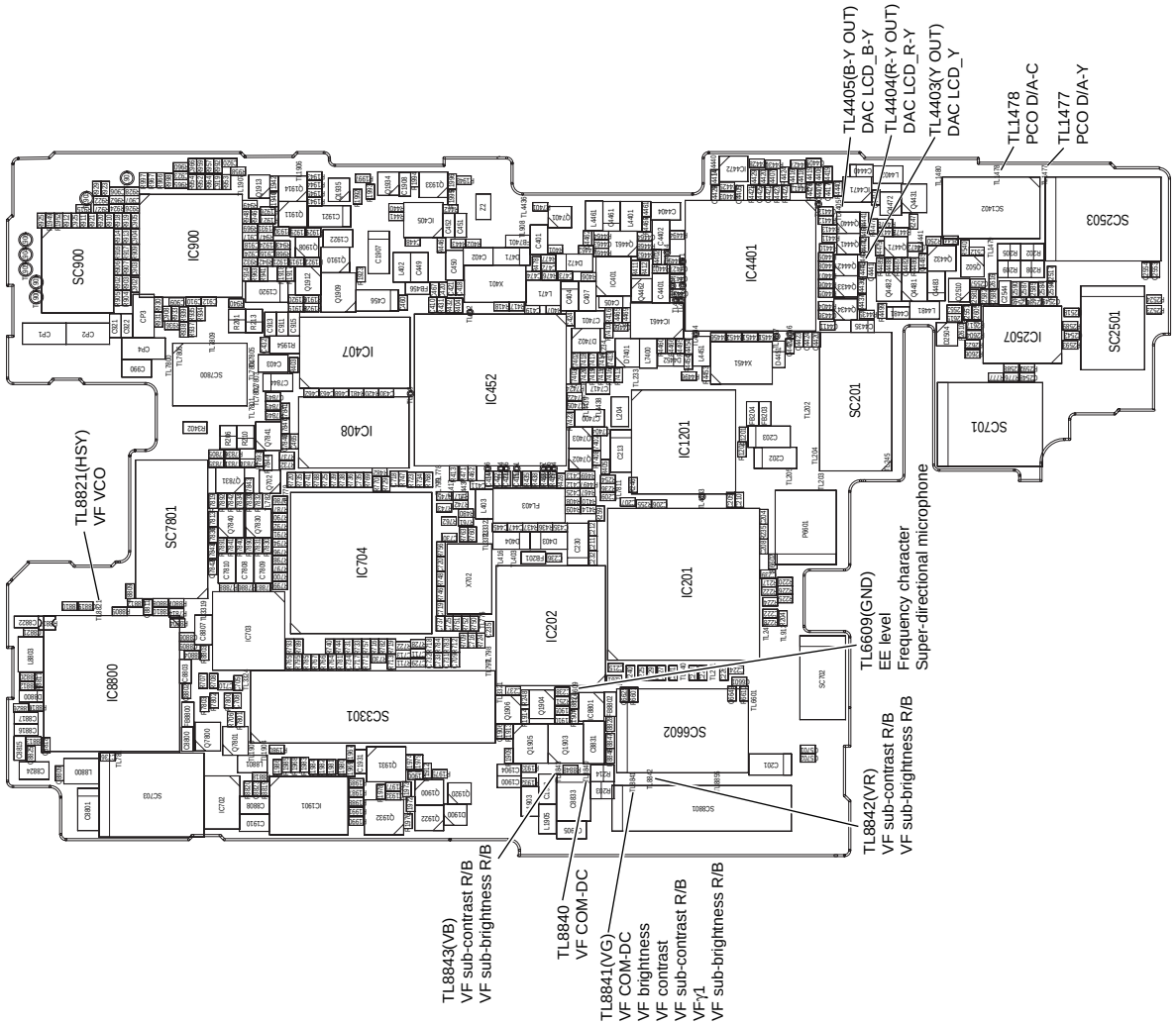


[TEST POINT]

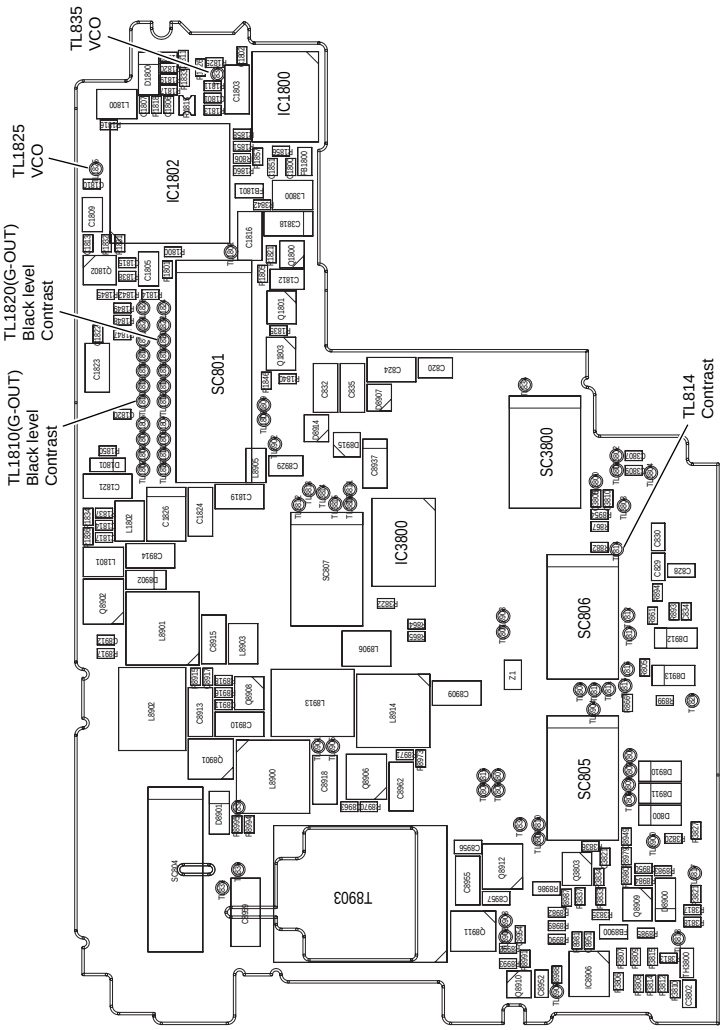
(Wiring board diagram: Main Side B)



(Wiring board diagram: Main Side A)



(Wiring board diagram: LCD Side A)



[Making adjustments]

Adjusting the servo system controller and related parts

1. Setting the system codes

Replacement of IC705 E²PROM requires the following data to be set in this order.

[Procedure]

Set the unit to the VCR mode and set the data for each address.

Code	1. Model code		2. Destination code			3. Specifications code		4. Menu selection code		5. Software switching code		6. Calendar switching	
Address	01	09		02	0A	03	0B	04	0C	05	0D	07	0F
Data	00	FF	S	0A	F5	16	E9	00	FF	00	FF	01	FE
			H	0D	F2								
			E	0B	F4								

Code	7. Model_ID	
Address	FF	
Data	S	10
	H	11
	E	12

When replacing the IC705 E²PROM, first make the following settings and then start the adjustments.

(1) Electromagnetic conversion

Address	27	28	2B	*105	25	26	3C9	94
Data	40	90	90	80	40	90	06	05

* The address uses only when replacing the IC302.

(2) LCD circuit

Address	626	627	629	611	612
Data	16	00	C0	AB	83

* The address uses only when replacing the IC3800.

• Adjustment with automatic machine

Mode	VCR ADJ mode
Procedure	1) Using the 12 command, set the VCR adjustment mode. 2) Using the 20 command, give the E²PROM Write permission. 3) Set the system code with the 22 command for each type. 4) Using the command, set write inhibition. 5) Using the command, cancel the adjustment mode.
Examples	• During E²PROM (IC705) replacement.

• Manual adjustment

Mode	VCR ADJ mode
Procedure	1) Set the CAM/OFF/VCR selection switch to VCR. 2) Press “CONTINUE” → ”VCR adjustment” on the remote controller to set the VCR adjustment mode. (At this time an indication “VCR ADJ” appears at the left lower side.) Enter a setting corresponding to the address. <Setting method> 3) Adjust the address by moving up and down the blinking numeral with the FF and REW key, and fix the address by pressing the PB key. 4) Adjust to the setting by moving up and down the blinking numeral with the FF or REW key, and set data by pressing the PB key. 5) Press the STOP key to set the address set state. 6) Repeat the operations 3), 4) and 5) as much as input addresses. After completion of input of all items hold down the “CONTINUE” key to cancel the VCR adjustment mode. 7) Set the CAM/OFF/VCR selection switch to OFF.
Examples	• During E²PROM (IC705) replacement.

2. HSWP adjustment

Mode	VCR ADJ mode
Procedure	1) Play back the alignment tape in the video mode. 2) Press the "CONTINUE" and "HSWP ADJ" keys on the adjustment remote control in this order. → This executes the HSWP adjustment. When the adjustment is successful, the LCD lights up [OK] and the cassette is automatically ejected. If not properly adjusted, the LCD lights up [NG].
Examples	• During mechanism replacement. • During E²PROM replacement (IC302 inside the head amplifier circuit board).

3. SHUT OFF adjustment

Mode	VCR ADJ mode
Procedure	1) Load a recordable tape, and set the camera mode. 2) Press the "CONTINUE" and then the "TEST SEL" on the remote control for adjustment to enter the TEST mode (T-01 blinks). 3) Select T-03 with the FF or REW key and then press the PB key. 4) Observing the power voltage from TL900(-), set it so that TL904(+) obtains 6.00V ± 50mV. 5) Press the display key on the main unit. Turn off the power and the adjustment is completed.
Examples	• During microcomputer (IC704) or E²PROM (IC705) replacement.

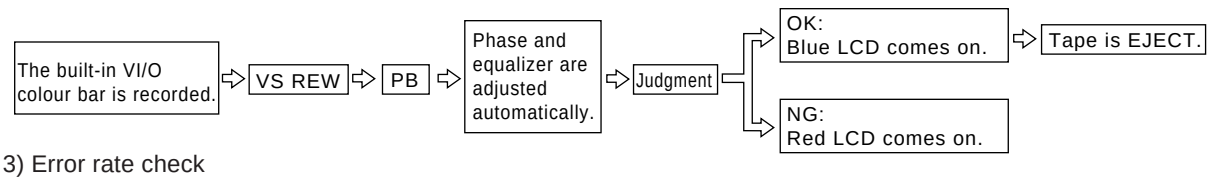
ADJUSTING THE ELECTROMAGNETIC CONVERSION CIRCUIT SYSTEM

1. PLL VCO adjustment

Mode	VCR ADJ mode
Procedure	1) Playback the alignment tape (or a self-recorded tape). 2) Call the adjustment mode (V-ADJ). 3) Set the address "2A" and call the data. 4) Set the called data with the FF/REW key to the point where the playback screen appears. (At this time, the screen full of block noise is OK.)
Examples	• During E²PROM replacement. • During circuit board (Main) replacement.

2. Phase and equalizer adjustment → (Performed in the VCR mode)

Mode	VCR ADJ mode
Procedure	1) Load a self-recorded tape into the deck. 2) After playback for 3 minutes, select the test mode 0F using the remote control for adjustment to start the automatic adjustment. (The following sequence is automatically performed.)
Examples	• During mechanism replacement. • During circuit board (Main) replacement. • During E²PROM replacement.

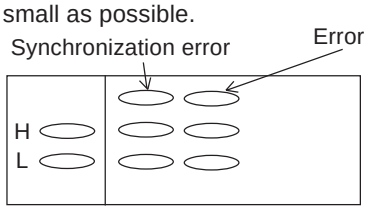


3) Error rate check
Select and fix the TEST MODE 0B on the adjustment remote control.

4) Manual adjustment method (video adjustment mode)

* Perform this adjustment with the self-recording/playback in the LP mode.
For phase, vary the data for the address 26 and 2B, and for equalizer, vary the data for the address 25 and 27, to set the error rate is made as small as possible.

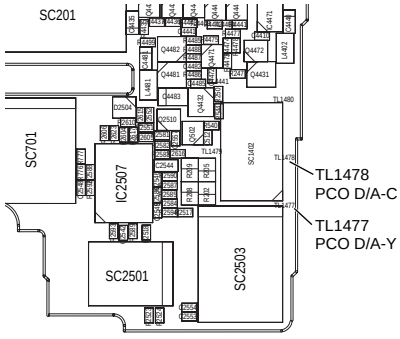
	Phase	Equalizer
H ch side	2B	27
L ch side	26	25



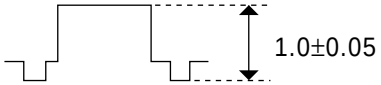
Synchronization error	20 or less
Error rate	200 or less (SP Mode) 330 or less (LP Mode)

ADJUSTING THE VIDEO I/O CIRCUIT SYSTEM

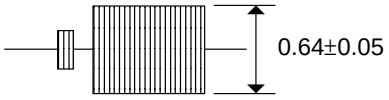
(Wiring board diagram: Main Side A)



1. PCO D/A-Y adjustment

Test point	TL1477 (connected to oscilloscope)	Mode	EE mode
Procedure	1) Connect the AVS cable and then connect it to the monitor (TO). 2) Call the adjustment mode (V-ADJ). 3) Set the address to "22", and call the date. (100% white signal is output.) 4) Vary the date with the FF and REW keys to set the signal appearing at TL1477 to 1.0Vp-p ± 0.05Vp-p. 		
Examples	• During E²PROM replacement. • During IC4401 replacement. • During IC1401 replacement.		

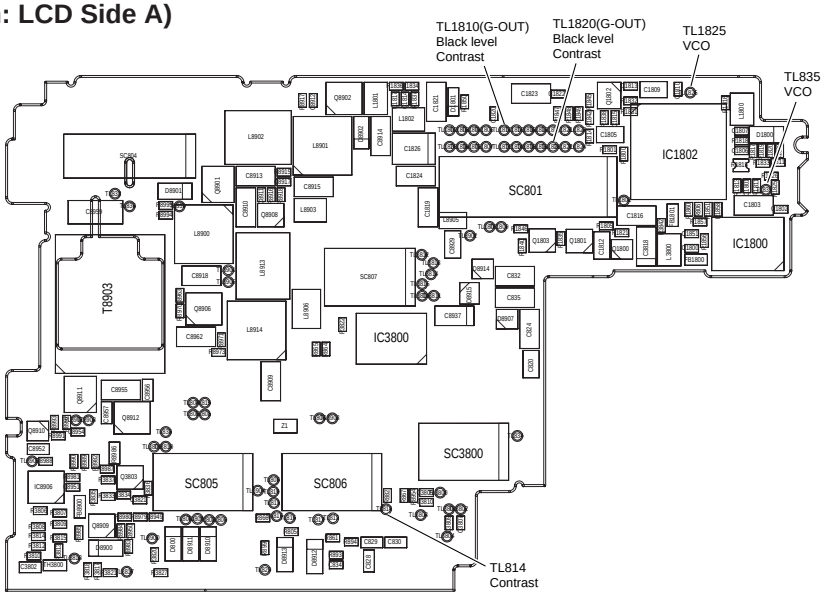
2. PCO D/A-C adjustment

Test point	TL1478	Mode	EE mode
Procedure	1) Connect the AVS cable and then connect it to the monitor (TO). 2) Call the adjustment mode (V-ADJ). 3) Set the address to "23", and call the data.  4) Vary the data with the FF and REW keys to set the signal appearing at TL1478 to 0.64Vp-p ± 0.05Vp-p.		
Examples	• During E²PROM replacement. • During IC4401 replacement. • During IC1401 replacement.		

ADJUSTING THE LCD CIRCUIT

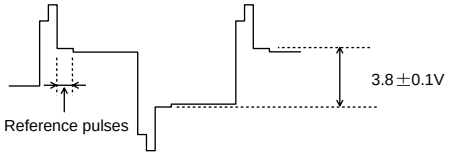
* To make this adjustment, set the backlight switch to the "NORMAL" position.

(Wiring board diagram: LCD Side A)

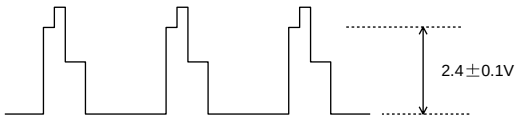


Adjustment procedure and connecting same as the VCR section.

1. Black level adjustment

Test point	TL1820(G-OUT)	Address	601
Mode	VCR AV input		
Procedure	1) Set the data of VCR ADJ 96 (USER BRIGHT) to 80. 2) Change the VCR ADJ 423/424 to 90/90. 3) Adjust the waveform of TL1810(G-OUT) between reference pulses to the adjustment rating.		
Adjustment rating	3.8V ± 0.1V 		
Examples	• During IC800 or IC3800 replacement.		

2. Contrast adjustment (standard)

Test point	TL1820(G-OUT)	Address	60A
Mode	VCR AV input		
Procedure	1) Set the data of VCR ADJ 96 (USER BRIGHT) to 80. 2) Input white 100% signal into the AV input. 3) Connect TL814 to GND. (1H inversion stop) 4) Adjust the waveform of TL1810(G-OUT) between pedestal and white 100% to the adjustment rating.		
Adjustment rating	2.4V ± 0.1V 		
Examples	• During IC800 or IC3800 replacement.		

3. VCO adjustment

Test point	TL1825	Address	605
Mode	VCR AV input		
Procedure	1) Input white 40% signal into the AV input. 2) Connect TL835 to a digital voltmeter and adjust the DC voltage with the address 605 to the adjustment standard value.		
Adjustment rating	1.75 ± 0.1V		
Examples	• During IC1802 or IC3800 replacement.		

4. COM-Bias adjustment

Test point	LCD panel display area	Address	604
Mode	VCR AV input		
Procedure	1) Input white 40% signal into the AV input. 2) Set the illuminometer (TOPCON IM-3) on the LCD panel surface. (Shut off the external light.) 3) Minimize the ripple of output waveform of illuminometer.		
Adjustment rating	Minimum Response time : 0.6 sec.		
Remark	Make this adjustment after 5-minute or longer aging.		
Examples	• During LCD monitor or LCD panel replacement. • During IC800 or IC3800 replacement.		

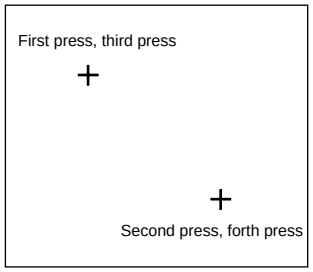
5. White Balance adjustment

Test point	LCD panel daisplay area	Address	6CB, 6CC
Mode	VCR AV input		
Procedure	1) Input white 40% signal into the AV input. 2) Input white 40% signal into the standard monitor, and adjust it until it becomes the same as that screen.		
Adjustment rating	Standard monitor		
Remark	Make this adjustment after 5-minute or longer aging.		
Examples	• During LCD monitor or LCD panel replacement. • During IC800 or IC3800 replacement.		

ADJUSTING THE TOUCH PANEL CIRCUIT

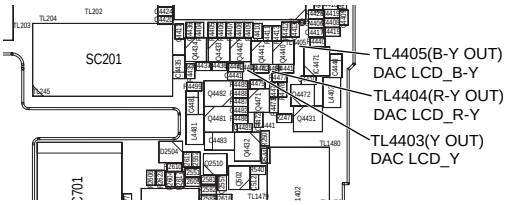
6. Touch panel location detection adjustment

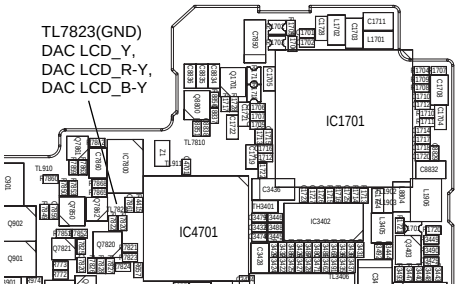
Test point	LCD panel display area	Address	————
Mode	VCR AV input		
Procedure	1) When entering the touch panel adjustment mode (TEST 0E), the + marks appear on the upper left and the lower right. 2) Press the + marks in the order of (1), (2), (3), and (4) (specified). (1) Press the + mark on the upper left. The color of + changes. (2) Press the + mark on the lower right. The color of + changes. (3) Press the + mark on the upper left. The color of + changes. (4) Press the + mark on the lower right. 3)After completing the step (4), the adjustment result is displayed on the LCD. OK: After touching the panel, "OK" is displayed on the LCD. "OK" disappears by pressing "Erase". NG: After touching the panel, "NG" is displayed on the LCD. Perform adjustment from the beginning again.		
Adjustment rating	————		
Examples	• During the touch panel replacement. • During IC3800 replacement.		



VIDEO I/O ENG DAC CIRCUIT

(Wiring board diagram: Main Side A)



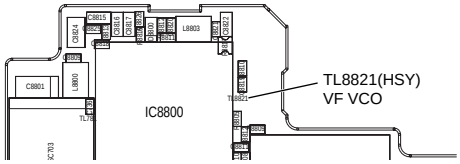


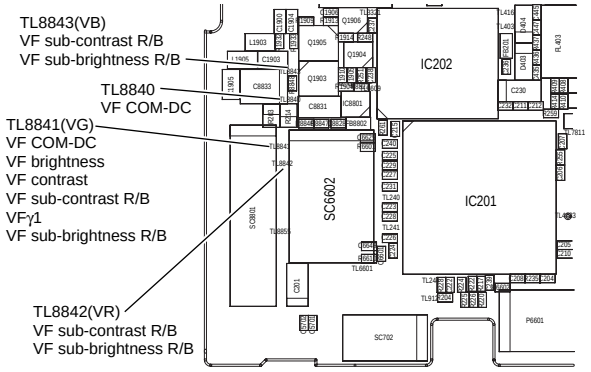
(Wiring board diagram: Main Side B)

7. DAC LCD_Y adjustment, DAC LCD_R-Y adjustment, DAC LCD_B-Y adjustment

Test point	TL4403(Y OUT), TL4404(R-Y OUT), TL4405(B-Y OUT), TL7823(GND)
Mode	CAM
Address	VCR ADJ 3D(Y), VCR ADJ 3E(R-Y), VCR ADJ 3F (B-Y)
Procedure	1) Change the VCR ADJ 423/424/425/426/42F to 90/EB/80/80/00. 2) Adjust the output voltage of TL4403 with the VCR ADJ 3D and the DC voltage with a digital voltmeter to the adjustment standard value. 3) Adjust the output voltage of TL4404/TL4405 with the VCR ADJ 3E/3F and the DC voltage with a digital voltmeter to the adjustment standard value. (The same as (2)) 4) Return the VCR ADJ 423/424/425/426/42F to its former state. Note: When changing 42F FF to 00, the OSD display of LCD/VF disappears. Observing the monitor output, make the adjustment. Be sure to return it to FF after adjustment.
Adjustment rating	0.439V ± 5mV (Y OUT), 0.251V ± 2mV (R-Y OUT), 0.319V ± 2mV (B-Y OUT)
Examples	• During IC4401, IC4701 or IC702 replacement.

(Wiring board diagram: Main Side A)





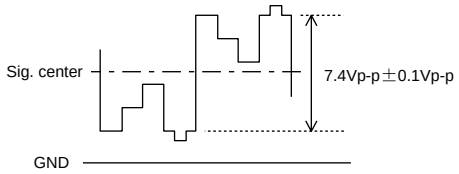
8. VF VCO adjustment

Test point	TL8821(HSY)	Address	VCR ADJ 32
Mode	VCR AV input		
Procedure	1) Use 3-STEP staircase wave as an input signal. 2) Connect TL8821 to a digital voltmeter and adjust the DC voltage with the VCR ADJ 32 to the adjustment standard value.		
Adjustment rating	1.85 ± 0.1V		
Examples	• During IC702 or IC8800 replacement.		

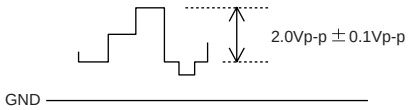
9. VF COM-DC adjustment

Test point	TL8840	Address	89
Mode	VCR AV input		
Procedure	1) Use 3-STEP staircase wave as an input signal. 2) Read the output of TL8841 and the DC voltage with a digital voltmeter (VG_{DC}). 3) Read the output of TL8840 and the DC voltage with a digital voltmeter ($VCOM_{DC}$). 4) Make the adjustment so that ($VCOM_{DC}$ - VG_{DC}) is within the adjustment rating.		
Adjustment rating	-0.15 ± 0.1V		
Examples	• During IC702 or IC8800 replacement.		

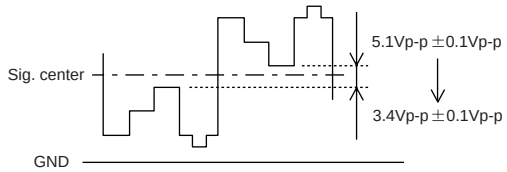
10. VF brightness adjustment

Test point	TL8841(VG)	Address	VCR ADJ 80
Mode	VCR AV input		
Procedure	1) Use 3-STEP staircase wave as an input signal. 2) Change VCR ADJ 8C to 1F. 3) Adjust the waveform of TL8841 between pedestals to the specified level. 4) Return VCR ADJ 8C to the former state.		
Adjustment rating	7.4Vp-p ± 0.1Vp-p 		
Examples	• During IC702 or IC8800 replacement.		

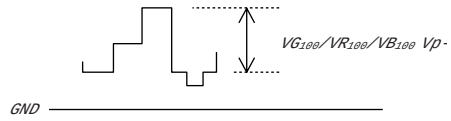
11. VF contrast adjustment

Test point	TL8841(VG)	Address	VCR ADJ 83
Mode	VCR AV input		
Procedure	1) Use 3-STEP staircase wave as an input signal. 2) Change VCR ADJ 8C to 1F. 3) Set the VCR ADJ 86/87 to FF. 4) Adjust the waveform of TL8841 between pedestal and 100% to the specified level. 5) Return VCR ADJ 8C to the former state.		
Adjustment rating	2.0Vp-p ± 0.1Vp-p 		
Examples	• During IC702 or IC8800 replacement.		

12. VFγ1 adjustment

Test point	TL8841(VG)	Address	VCR ADJ 87
Mode	VCR AV input		
Procedure	1) Use 3-STEP staircase wave as an input signal. 2) Change VCR ADJ 8C to 1F. 3) Adjust the waveform of TL8841 between white 100% and white 100% with VCR ADJ 87 to 5.1 ± 0.1Vp-p. 4) Then adjust the same waveform with VCR ADJ 83 to 3.4 ± 0.1Vp-p. 5) Return VCR ADJ 8C to the former state.		
Adjustment rating	5.1 ± 0.1Vp-p (VCR ADJ 87) 3.4 ± 0.1Vp-p (VCR ADJ 83) 		
Examples	• During IC702 or IC8800 replacement.		

13. VF sub-contrast R/B adjustment

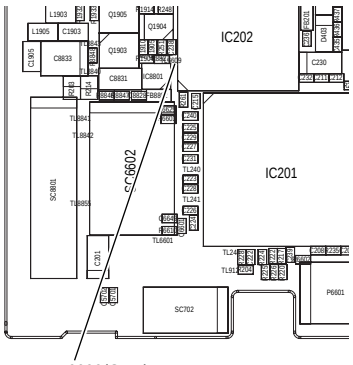
Test point	TL8842(VR), TL8841(VG), TL8843(VB)	Address	VCR ADJ 84(VR), VCR ADJ 85(VB)
Mode	VCR AV input		
Procedure	1) Use 3-STEP staircase wave as an input signal. 2) Adjust the 100% waveform of TL8841 and TL8842 between amplitudes to the specified level. 3) Adjust the 100% waveform of TL8841 and TL8843 between amplitudes to the specified level.		
Adjustment rating	0 ± 40mV(VR_{100} - VG_{100}), 0 ± 40mV(VB_{100} - VG_{100}) 		
Examples	• During IC702 or IC8800 replacement.		

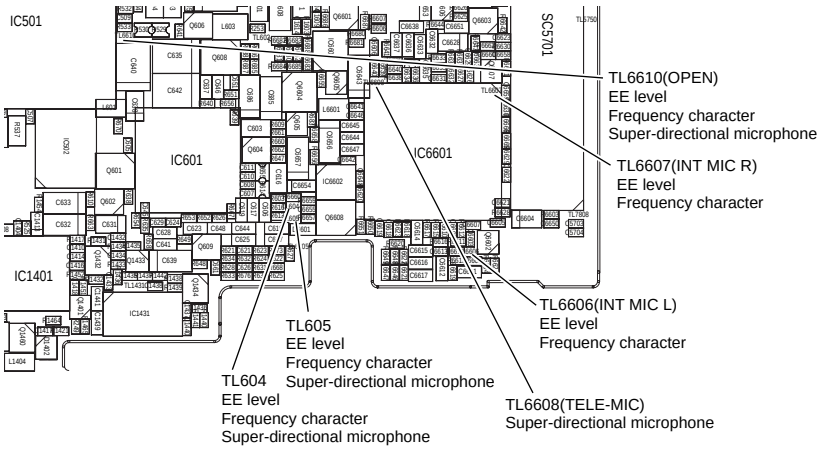
14. VF sub-brightness R/B adjustment

Test point	TL8842(VR), TL8841(VG), TL8843(VB)	Address	VCR ADJ 81(R), VCR ADJ 82(B)
Mode	VCR AV input		
Procedure	1) Input white 40% signal into the AV input and standard monitor. 2) Adjust it with the VCR ADJ 81/82 so as to obtain the same color as the standard monitor.		
Adjustment rating	Standard monitor		
Examples	• During IC702 or IC8800 replacement.		

ADJUSTING THE MIC AMP CIRCUIT

(Wiring board diagram: Main Side A)





(Wiring board diagram: Main Side B)

1. EE level check

Measuring instrument	Valve voltmeter	Test point	TL605, TL604
Mode	P-ON (CAM), Zoom MIC "OFF" Timbre mode "NORMAL"	Adjustment rating	-9dBs ± 3dB
Test signal	1kHz -54dBs sine wave		
Procedure	1) Input 1kHz, -54dBs sine wave into TL6606(INT MIC L) and TL6607(INT MIC R). 2) Make sure that the signal level of TL605 Audio-L out and TL604 Audio-R out is within the standard limits.		
Remark	TL6610: OPEN, TL6609: GND		

2. Frequency character check

Measuring instrument	Valve voltmeter	Test point	TL605, TL604
Mode	P-ON (CAM) Parameter: Zoom MIC "OFF" Timbre mode "NORMAL"	Adjustment rating	(1kHz standard) 100Hz: -11dBs ± 3dB 10kHz: 0B ± 3dB
Test signal	100Hz, 10kHz -54dBs sine wave		
Procedure	1) Input 100Hz, -54dBs sine wave and then 10kHz, -54dBs sine wave into TL6606(INT MIC L) and TL6607(INT MIC R). 2) At this time make sure that the signal level of TL605 Audio-L out and TL604 Audio-R out is within the standard limits (1kHz standard).		
Remark	TL6610: OPEN, TL6609: GND		

3. Super-directional microphone check

Measuring instrument	Valve voltmeter	Test point	TL605, TL604
Mode	P-ON (CAM), Zoom MIC "TELE" Timbre mode "NORMAL"	Adjustment rating	-10dBs ± 3dB
Test signal	1kHz -54dBs sine wave		
Procedure	1) Input 1kHz, -54dBs sine wave into TL6608(TELE-MIC). 2) Make sure that the signal level of TL605 Audio-L out and TL604 Audio-R out is within the standard limits.		
Remark	TL6610: OPEN, TL6609: GND		

DV INTERFACE (IEEE1394) ID SETTING

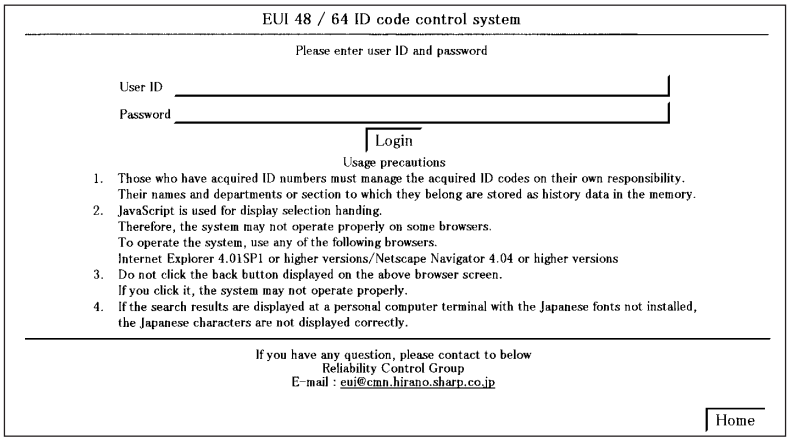
This unit has a DV interface function conforming to IEEE1394. Therefore, each individual ID number must be used for each unit. Since this ID is written on the E²PROM (IC302) on the head amp PWB, the ID must be newly written when replacing this IC or the head amp PWB.

Address	180, 17F, 17E	Mode	VCR
Adjustmentrating	ID number obtained from the URL below		
Procedure	1) Refer to the ID code application below. 2) Set the data obtained in step (1) to the corresponding addresses in the VCR adjustment mode. * (Example) The data "08001F 0100 123456" is obtained. (1) Enter the unit in the VCR ADJ mode. (2) Set the ID numbers as follows.		
Examples	• During E²PROM (IC302: on the H/A unit) replacement. • During the H/A unit (RAMP-0035TAN1) replacement.		

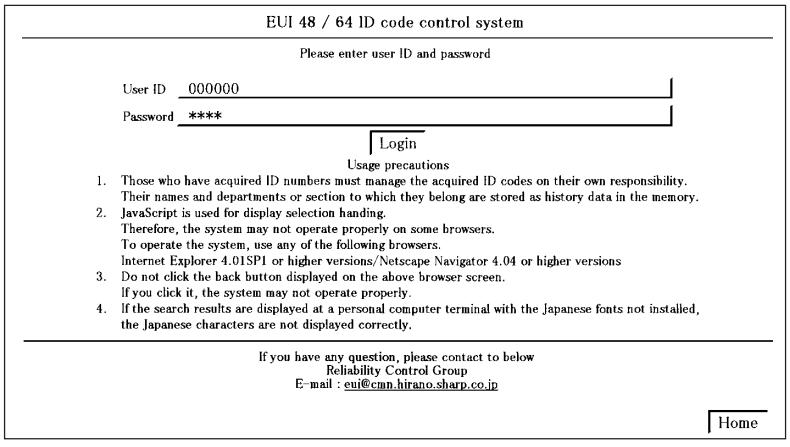
Address	180	17F	17E
Data	12	34	56

■ ID code is acquired

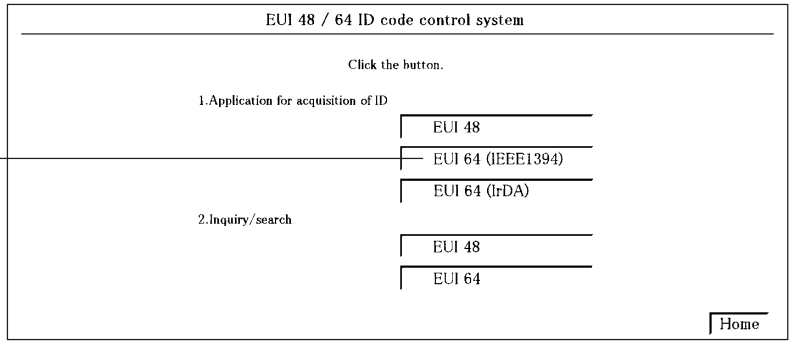
1. Connect with the EUI48/64 ID code control system.
   (1) Start the Internet Explorer or Netscape Navigator.
   (2) Access the following address.
   (URL:http://www.rcg.kami.sharp.co.jp/quics/e_index.html)
   Select the "EUI48/64 ID code control system" from the "Service" item.
   Note: If you want to establish a connection by directly inputting the URL, please input the following.
   URL:http://www1.rcg.kami.sharp.co.jp:7000/adrs_agt/adrs_dba/ide00010.main
   The login screen will appear.


EUI 48 / 64 ID code control system
Please enter user ID and password
User ID
Password
Login
Usage precautions
1. Those who have acquired ID numbers must manage the acquired ID codes on their own responsibility. Their names and departments or section to which they belong are stored as history data in the memory.
2. JavaScript is used for display selection handing. Therefore, the system may not operate properly on some browsers. To operate the system, use any of the following browsers. Internet Explorer 4.01SP1 or higher versions/Netscape Navigator 4.04 or higher versions
3. Do not click the back button displayed on the above browser screen. If you click it, the system may not operate properly.
4. If the search results are displayed at a personal computer terminal with the Japanese fonts not installed, the Japanese characters are not displayed correctly.
If you have any question, please contact to below
Reliability Control Group
E-mail : eui@cmn.hirano.sharp.co.jp
Home

   (3) For the [User ID], input the [Password].
   Click on [Login].

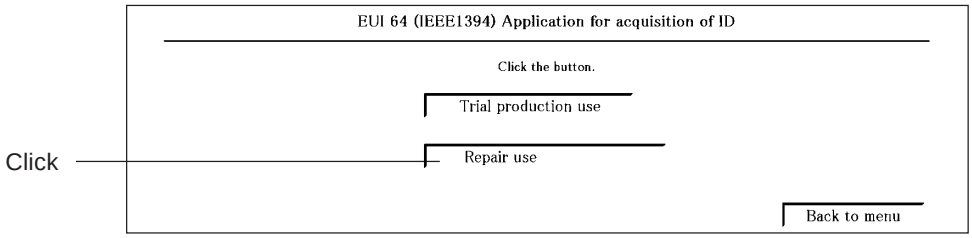

EUI 48 / 64 ID code control system
Please enter user ID and password
User ID 000000
Password ****
Login
Usage precautions
1. Those who have acquired ID numbers must manage the acquired ID codes on their own responsibility. Their names and departments or section to which they belong are stored as history data in the memory.
2. JavaScript is used for display selection handing. Therefore, the system may not operate properly on some browsers. To operate the system, use any of the following browsers. Internet Explorer 4.01SP1 or higher versions/Netscape Navigator 4.04 or higher versions
3. Do not click the back button displayed on the above browser screen. If you click it, the system may not operate properly.
4. If the search results are displayed at a personal computer terminal with the Japanese fonts not installed, the Japanese characters are not displayed correctly.
If you have any question, please contact to below
Reliability Control Group
E-mail : eui@cmn.hirano.sharp.co.jp
Home

   (4) Click on [EUI 64 (IEEE 1394)] from the [1. Application for acquisition of ID].

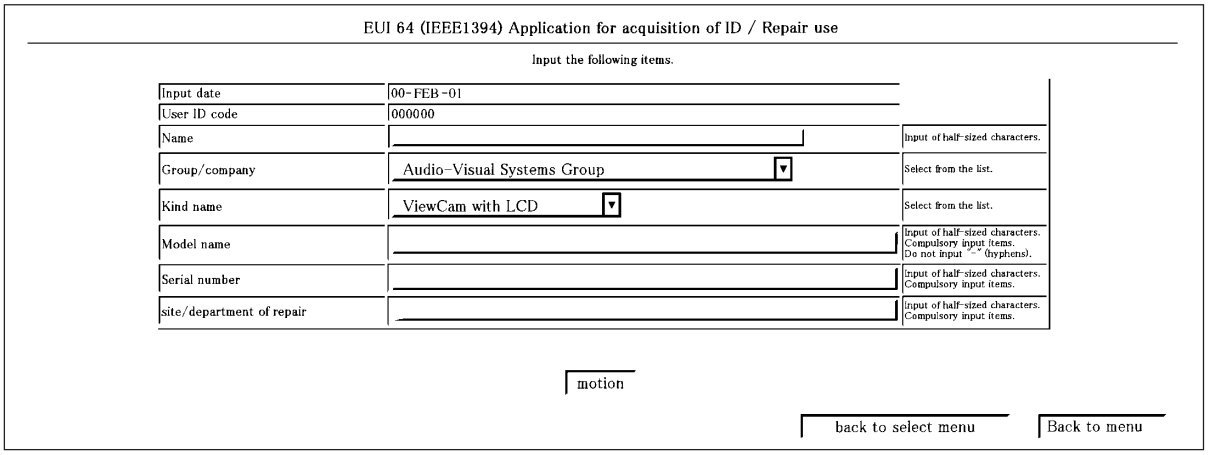


Click

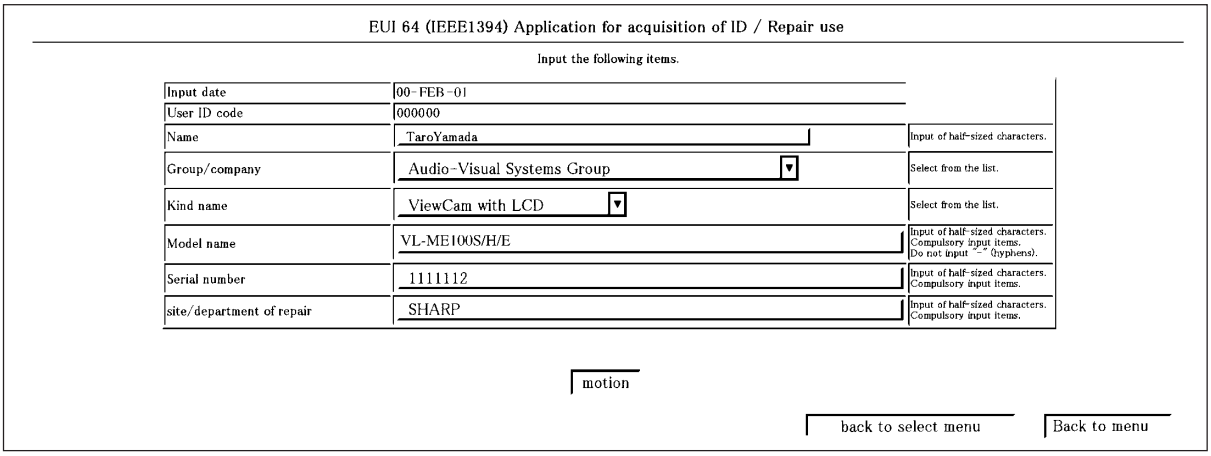
(5) Click on [Repair use].



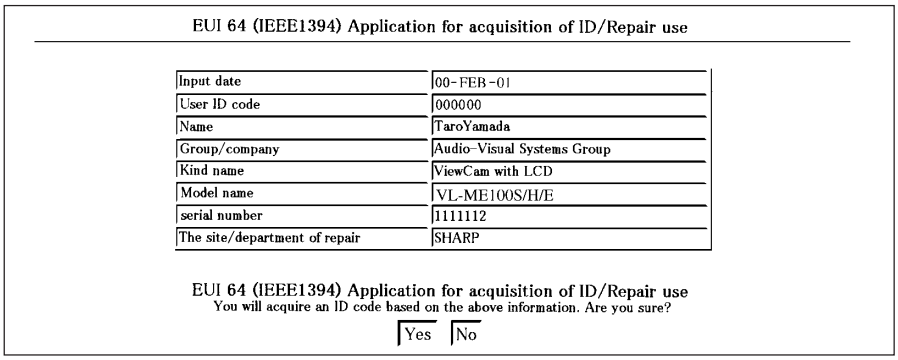
(6) Input the necessary information for the application.
For the indispensable input items, be sure to input them.
Select the [Group/company] and [Kind name] from the list.
Input the [Model name].
Input the [Serial number].
Input the [Site/department of repair].



(7) Click on [motion].
The confirmation screen will appear.



(8) Click on [Yes].



2. Print the application result.
(1) Print out the application result screen.
Control the application result as evidence.
To print it, select "Print (P)" from the "File (F)" in the menu bar or click on the print button in the tool bar.
(2) Click on [Menu] to complete the application.
If you create applications in succession, repeat steps (1)~(8).
To complete it, click on [End] in the menu screen.

9-2. Camera Section Adjustments

9-2-1. Camera section service

(1) Camera adjustment is performed after the set has been completed.

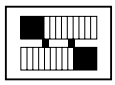
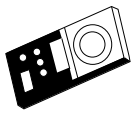
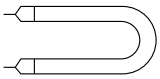
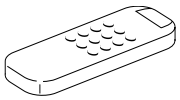
(2) Subjects, measuring instruments and jigs needed for camera section service and adjustments

• Gray scale chart • Color bar chart • Oscilloscope • Digital voltmeter • Halogen lamp: 2 pcs. • Vector scope	• Frequency counter • Illumination meter • Color temperature meter • Color temperature conversion filter HOYA "LB-165" • Color video monitor	• Video output cable • AC adapter • Extension cables • Remote control unit for servicing

9-2-2. List of camera jigs and tools

Configuration

<Note: The entries of list> 1. Name 2. Part No. 3. Code

 1. Gray scale chart (390 x 520 mm) 2. JiGCHART-1 3. CP	 1. Color bar chart (240 x 320 mm) 2. JiGCHART-4 3. DA	 1. Illumination meter (0 to 3000 lux) 2. JiGMETER-1 3. CT	 1. Color temperature meter (1600 to 400000 degrees K) 2. JiGMETER-2 3. EL
1. Color temperature conversion filter (3200 degrees K ⇒ 6800 degrees K) 2. JiGHOYA-LB165 3. BN	 1. PC plate connector drawer 2. JiGTH-SS10 3. AW	 1. Remote control until for servicing 2. RRMCG0033TASA 3. BT	

9-2-3. Adjusting the camera unit

(1) Preparations for adjustments and items to be checked

1) Set up the light box so that the entire pattern is evenly lit. Set the color temperature to 3200°K.
2) Use test patterns that are not dirty nor discoloured.
3) If the electrical circuitry gets in trouble, be sure to pinpoint the trouble spot with a measuring instrument and repair or replace the defective part.

(2) Remote control for servicing RRMCG0033TASA

To adjust the camera section of this machine, the remote control for servicing (RRMCG0033TASA) is used. The adjustment is made in such a manner that the remote control writes necessary data by way of the microprocessor to the specific addresses on the E^2PROM (IC502).

1) To adjust the camera:
Press the "CONTINUE" key first and then the "CAM ADJ" key.
This will show

CAM ADJ
□□□□

on the LCD screen, thereby having the camera unit ready for the adjustments.

2) Descriptions of the displays

CAM □□□□ (Address value) ADJ □□□□ (Data value)

(Indicates the camera adjustment mode.)

* The address values for this machine range from 0000 to 09FF.
* The data include byte data (the last two digits are effective) and 2-byte data (the last three digits are effective).

3) Descriptions of the remote control keys

"FF" key: Increases the address and data values.
"REW" key: Decreases the address and data values.
"PLAY" key: Specifies addresses and calls the data.
This key also fixes the data values.
"STOP" key: Clears the data to enable the selection of address.

4) Operation flow

→ FF or REW → PLAY → FF or REW → PLAY → STOP →

Address is selected and specified, with the data called. Then the called data are selected and fixed. The operation flows in this sequence.

5) When the adjustment is complete:
Press the "CONTINUE" key to let the "CAM ADJ" display disappear from the screen.
Note: Before terminating the adjustments, make sure that the adjustment mode is neither the auto-focus function adjustment mode nor the camera signal system adjustment mode (these modes are mentioned later).

- Camera unit adjustment modes
The camera unit is adjusted in two types of modes: the auto-focus function adjustment mode and the camera signal system adjustment mode.

Note: E^2PROM contains the adjustment item data as shown below. If it is changed, data rewriting and confirmation of latest data must be performed.
E^2PROM(IC502) on main unit
Signal system adjustment data/Lens data

(3) Auto-focus function adjustment mode

- The camera unit uses a microprocessor-controlled auto-focus zoom lens.
The auto-focus circuit incorporated in this unit is designed to execute the image processing where the focusing action is done by taking advantage of the fact that the high-frequency components in the image signals increase as the focus intensifies. Moreover, to achieve high magnifying power with a small lens, the camera unit incorporates the inner focus system in which the focus is shifted by moving the master lens (rear lens) back and forth. This inner focus system is a full-range focus type by which the focus can be shifted from approximately 10 mm to the infinity. It should be noted, however, that since the closest subject distance at the telephoto end is fixed at 1.5 m, subjects in a closer range than 1.5 m at the telephoto end will be out of focus. For this reason, the unit is designed so the zoom control is automatically shifted to the wide angle side until the position is found where the subject can be focused on.

In the auto-focusing system of this until, the following constitute the important factors:
• Master lens position detection data
• Iris position detection data
• Zoom lens position detection data
These detection data are handled and stored by the microprocessor, lens by lens, into the E^2PROM.
Therefore, in the following cases, the auto-focus function adjustment is required:
• When the lens has been replaced
• When the CCD has been replaced
• When the E^2PROM has been replaced

1) Shifting to the auto-focus function adjustment mode
Set the data for the address "0000" to "□□ 01".
⇩
This makes the screen fade temporarily in white and shifts to the auto-focus function adjustment mode.

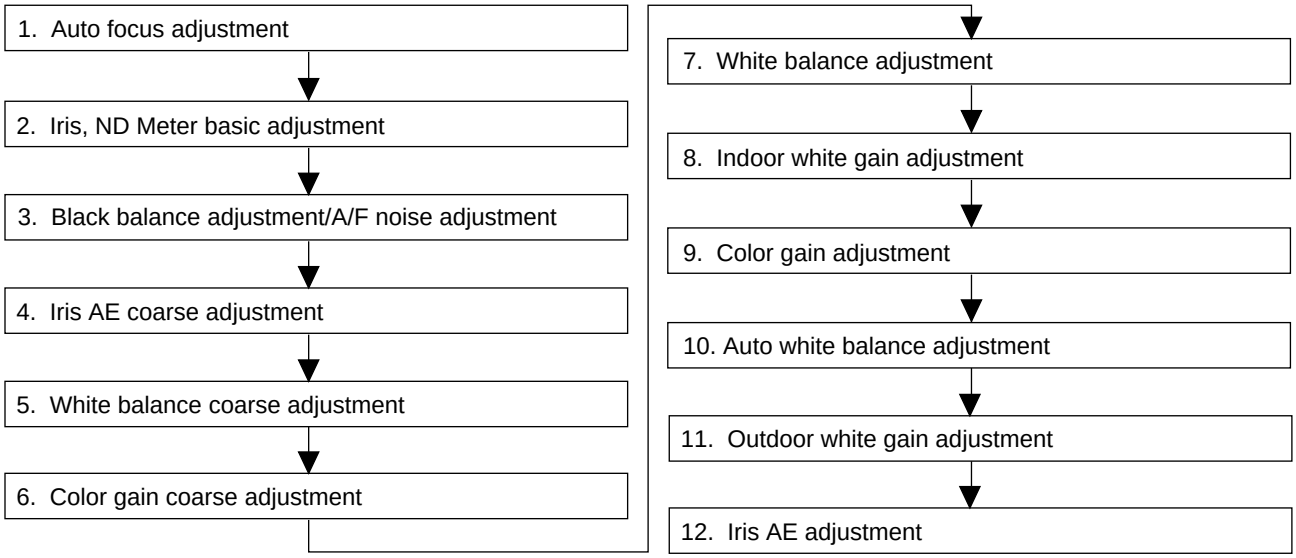
* When this adjustment mode has been shifted to, make the adjustment according to (5) Camera unit adjustment procedure.
* In this adjustment mode, the lens can not be operated.

2) Shifting to the normal operation mode
Set the data for the address "0000" to "□□ FF".
⇩
This makes the screen fade temporarily in white and shifts to the normal operation mode.
⇩
Press the "CONTINUE" key, and the "CAM ADJ" display goes out of the screen, enabling the normal operation.

(4) Camera signal system adjustment mode
In the camera signal system adjustment mode, the automatic white balance is disabled to allow for the adjustment of the camera unit. At this time, the white balance mode is fixed at the INDOORS mode and the focus mode is switched to the manual focus mode.
1) Shifting to the camera signal system adjustment mode
Set the data for the address "0000" to "□□ 00".
⇩
This shifts the camera signal system adjustment mode.
* When this adjustment mode has been shifted to, make the adjustment according to (5) Camera unit adjustment procedure.

2) Shifting to the normal operation mode
Set the data for the address "0000" to "□□FF".
⇩
This shifts the mode to the normal operation mode.
⇩
Press the "CONTINUE" key, and the "CAM ADJ" display goes out of the screen, enabling the normal operation.

(5) Camera unit adjustment procedure


1. Auto focus adjustment
2. Iris, ND Meter basic adjustment
3. Black balance adjustment/A/F noise adjustment
4. Iris AE coarse adjustment
5. White balance coarse adjustment
6. Color gain coarse adjustment
7. White balance adjustment
8. Indoor white gain adjustment
9. Color gain adjustment
10. Auto white balance adjustment
11. Outdoor white gain adjustment
12. Iris AE adjustment

* The above 1. Auto-focus function adjustment in the auto-focus function adjustment mode, whereas the other adjustments are made in the camera signal system adjustment mode.

(6) Replacement procedure of gyro unit
1) When replacing E^2PROM on lens unit of camera head with the gyro unit not replaced
Since the adjustment data of gyro is written in E^2PROM, copy the data of addresses "0864, 0865, 0866, 0867" and rewrite them after replacement.
2) When replacing the gyro sensor: RMC1001, RMC1002
After replacing with the specified gyro sensor, write the following data in the addresses "0864, 0865, 0866, 0867".

Ref No.	Part code	Address	Data
RMC1002	Replacement with RSNSG0012CE01	0864	02
		0865	30
RMC1001	Replacement with RSNSG0013CE01	0866	04
		0867	00

9-2-4. Adjustment procedures

Item	Adjustment method

(1) Auto-focus adjustment

Set the unit to the auto-focus function adjustment mode and write data to the address "0001" one after another. This executed the adjustments automatically. The items to be adjusted are as listed below. Every time an adjustment is made properly, the data "00FF" is written to the address. After each adjustment, make sure that the adjustment has been made properly, and then go on to the next adjustment item.

Address	Data	Adjustment item
0001	0012	WIDE end adjustment
	0006	WIDE end focus ∞ position adjustment
	0008	TELE end focus ∞ position adjustment
	000D	Zoom tracking adjustment

Note 1: To adjustment of ∞ position is executed by actually picking up the image of subject. For this adjustment use the subject with clear profile.
Especially, if the adjustment of TELE end focus ∞ position is made without picking up the image of remote subject, adjustment failure may occur.
Adjustment of WIDE end focus ∞ position: 3 m or more
Adjustment of TELE end focus ∞ position: 50 m or more

Note 2: In case of ∞ position adjustment the field depth is important to ensure the adjustment accuracy. If the field depth is high, the focus becomes too stable , which may cause incorrect adjustment of ∞ position. Therefore the adjustment must be made with low field depth (with iris opened).

The iris can be opened with the high-speed shutter.
1. It returns to the normal operation mode.
2. In the normal operation mode, set the high-speed shutter mode until the iris is opened. (Refer to the operation manual.)
3. Display “CAM ADJ” with the remote control for service.
4. It shifts to the auto-focus adjustment mode.
5. Perform the ∞ position adjustment.
6. After completing the ∞ position adjustment, return the high-speed shutter mode to the normal mode.

In the camera signal system adjustment mode (write the data "□□00" to the address "0000"), set the unit to the adjustment mode.

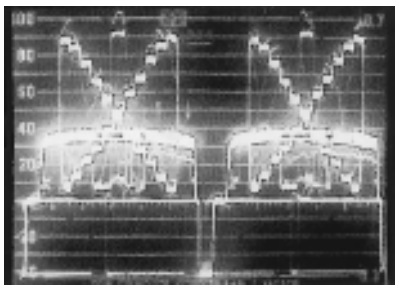
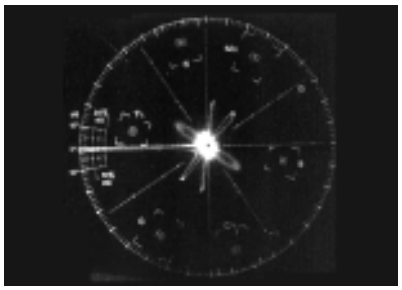
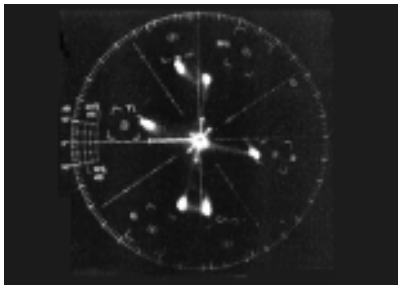
(2) Iris/ND Meter basic adjustment

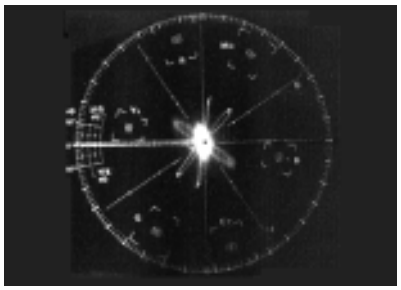
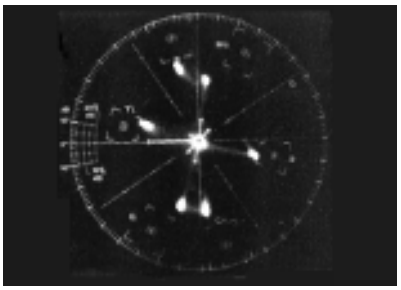
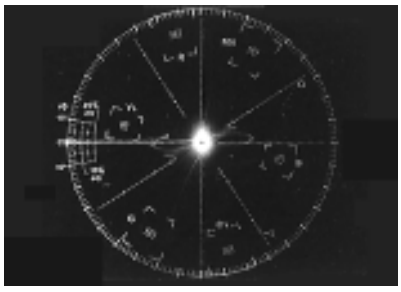
This is for adjusting the operating point of the hole element installed in the iris meter of the lens.
The adjustment is automatically done by sequentially writing the data at the address "0001" in the camera signal system adjustment mode.The items to be adjusted are as listed below. Every time an adjustment is made properly, the data "00FF" is written to the address.

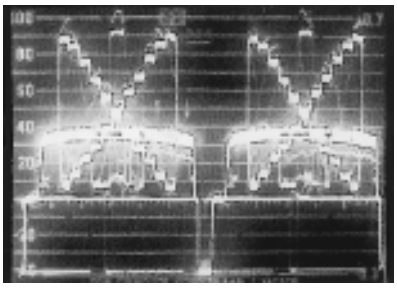
Address	Data	Adjustment item
0001	0009	Hall offset adjustment
	000A	Iris offset adjustment
	000B	Iris close adjustment

(3) Black balance adjustment/A/F noise adjustment

1)Prior to the adjustment, initialize the data for the addresses "0500", "0502", "0504", "0506", "0508", "050A".
Write "FFFF" to all of these address.
2) Write the data "□□01" to the address "0001" This starts the adjustment automatically.
When the adjustment is completed properly, the data "00FF" is written automatically.

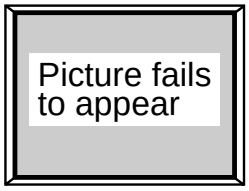
Item	Adjustment method
(4) Iris AE coarse adjustment • Measurement terminal: S terminal luminance signal output (75 Ω termination) • Address: "0002" AE_CVT • Measuring instrument: Oscilloscope (horizontal sync) • Object: Grey scale • Data variation width: "0000" to "00FE"	(1) Video output is observed with the oscilloscope in the grey scale standard record state, the data of address "0002" is rewritten, and the luminance signal level is adjusted white to 760 ± 10mVp-p, gray of the background 420 ± 10mVp-p.  100mV/div
(5) White balance coarse adjustment • Measurement terminal: EE output • Address: "0128" CGAIN_KR_W "012A" CGAIN_KB_W • Measuring instrument: Vector scope • Object: Grey scale • Data variation width: "0000" to "03FF"	(1) Indication on the vector scope is observed in the grey scale standard record state, data of address "0128" and "012A" are rewritten, and an adjustment is made so that the luminous dot is located in the position of burst ratio: R-Y 0 ± 5% B-Y 0 ± 5% 
(6) Color gain coarse adjustment • Measurement terminal: EE output • Address: "013A" CGIN RYG "013C" CGIN BYG "0138" CMAT RYG "0136" CMAT BYG "07DE" Yellow amplitude "07DD" Yellow phase • Measuring instrument: Vector scope • Object: Color bar chart • Data variation width: "0000" to "00FF"	(1) The color bar chart is imaged, and the picture angle is adjusted so as to get white level 700 mV. Indication on the vector scope is observed, the data of address "013A", "013C", "0138", "0136", "07DE"and "07DD" are rewritten, and setting is made so that the red, blue and Yellow luminous dots are located in the following positions. (The gain of vector scope must be set on 75% amplitude point on the B-Y axis.)  Adjustment address Red amplitude 1.85 ± 0.1 time (burst ratio) : "013A" Blue amplitude 1.50 ± 0.1 time (burst ratio) : "013C" Yellow amplitude 1.35 ± 0.1 time (burst ratio) : "07DE" Red phase 103° ± 2° : "0138" Blue phase 358° ± 2° : "0136" Yellow phase 164° ± 2° : "07DD"

Item	Adjustment method
(7) White balance adjustment • Measurement terminal: EE output • Address: "0128" INDOOR_W/B R "012A" INDOOR_W/B R • Measuring instrument: Vector scope • Object: Grey scale • Data variation width: "0000" to "03FF"	(1) White balance adjustment is performed repeatedly. 
(8) Indoor white gain adjustment • Measurement terminal:– • Address: 0001 • Measuring instrument:– • Object: White pattern • Data variation width:–	(1)The adjustment is automatically done by writing the data "05" at the address "001" in the signal system adjustment mode. When the adjustment is normally completed, the data "FF" will be return to the address "001". If another data except "FF" is returned, it will be judged as the poor adjustment.
(9) Color gain adjustment • Measurement terminal: EE output • Address: "013A" CGIN RYG "013C" CGIN BYG "0138" CMAT RYG "0136" CMAT BYG "07DE" Yellow amplitude "07DD" Yellow phase • Measuring instrument: Vector scope • Object: Waveform monitor color bar chart • Data variation width: "0000" to "00FF"	(1) Color gain adjustment is performed repeatedly.  Adjustment address Red amplitude 1.95 ± 0.05 time (burst ratio) : "013A" Blue amplitude 1.50 ± 0.05 time (burst ratio) : "013C" Yellow amplitude 1.35 ± 0.05 time (burst ratio) : "07DE" Red phase 104° ± 1° : "0138" Blue phase 342° ± 2° : "0136" Yellow phase 153° ± 2° : "07DD"
(10) Auto white balance adjustment • Measurement terminal: EE output • Address: "000C" OUTDOOR R "000E" OURDOOR B • Measuring instrument: Vector scope • Object: Grey scale • Data variation width: "0000" to "03FF"	(1) The color temperature conversion filter (LB165) is mounted in front of lens. (2) Indication of vector scope is observed in the grey scale standard record state, and an adjustment is made so that the luminous dots are located in the following positions: R-Y 0 ± 5% (burst ratio) B-Y 0 ± 5% (burst ratio) 
(11) Outdoor white gain adjustment • Measurement terminal:– • Address: 0001 • Measuring instrument:– • Object: White pattern • Data variation width:–	(1) Attach the color temperature conversion filter (LB165) in front of the lens. (2) The adjustment is automatically done by writing the data "06" at the address "001" in the signal system adjustment mode. When the adjustment is normally completed, the data "FF" will be return to the address "001". If another data except "FF" is returned, it will be judged as the poor adjustment.

Item	Adjustment method
(12) Iris AE adjustment • Measurement terminal: S terminal luminance signal output (75 Ω termination) • Address: "0002" AE_CVT • Measuring instrument: Oscilloscope (horizontal sync) • Object: Grey scale • Data variation width: "0000" to "00FE"	(1) Set the unit to the normal operation mode (write the data "FF" to the address "0000"). (2) Video output is observed with the oscilloscope in the grey scale standard record state, the data of address "0002" is rewritten, and the luminance signal level is adjusted white to 760 ± 10mVp-p, gray of the background 420 ± 10mVp-p.  100mV/div

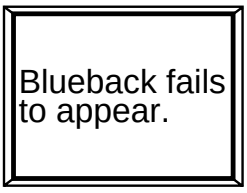
10. USEFUL TIPS (PROBLEMS DIFFER FROM THOSE FOUND ON VHS OR 8MM DECKS BECAUSE THE SIGNALS ARE DIGITALLY PROCESSED.)

Camera (EE mode)



Major circuits to be checked
- CCD
- Camera circuits (CDS, ADC, CAM ENGINE)
- SYSTEM MiCON (IC704)
- VIDEO I/O (IC1401)
- VIO ENGINE (IC4401)

VCR (EE mode)

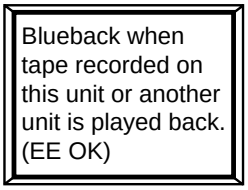


Major circuits to be checked
- SYSTEM MiCON (IC704)
- CAM ENGINE (IC201)
- REC/PB ENGINE (IC452)

Camera (REC mode)
VCR (PB mode)

Major circuits to be checked
- CAM ENGINE (IC201)
- REC/PB ENGINE (IC452)

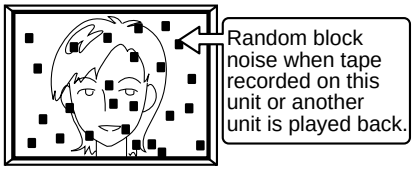
Camera (REC mode)
VCR (PB mode)



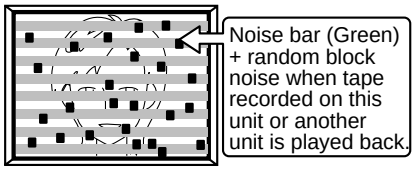
Major circuits to be checked
- EQ/PLL (IC3401)
- Head amplifier (IC301)

* Dirty or defective video head

Camera (REC mode)
VCR (PB mode)



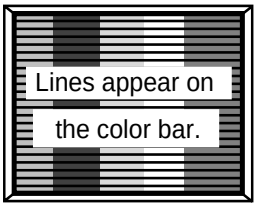
or



Major circuits to be checked
- EQ/PLL (IC3401)
- Head amplifier (IC301)

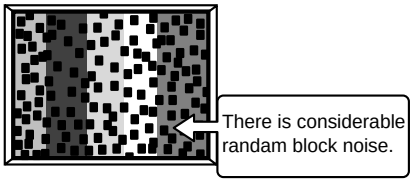
* Dirty or defective video head

VCR (PB mode) + color bar



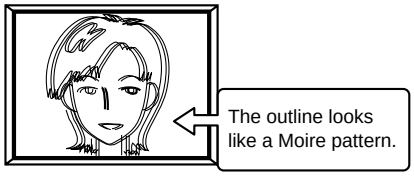
Major circuits to be checked
- CAM ENGINE (IC201)

VCR (PB mode) + color bar



Major circuits to be checked
- Adjustment of the electromagnetic conversion circuit system.

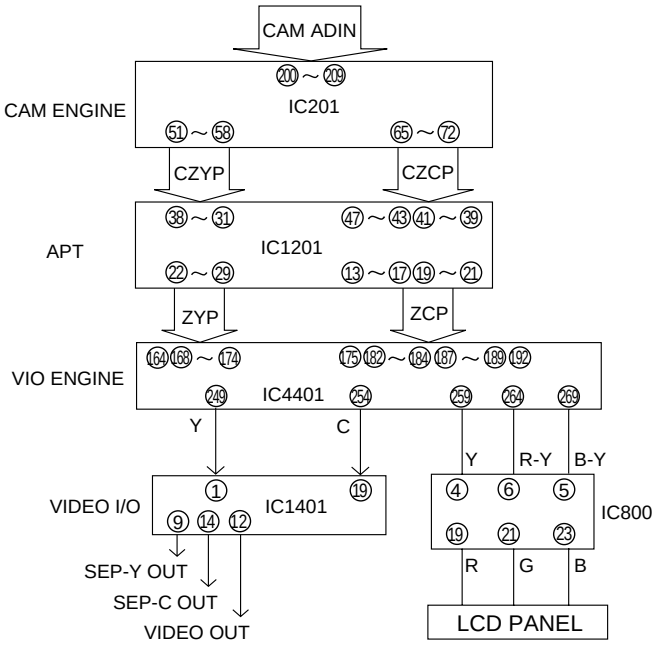
Camera (EE mode)



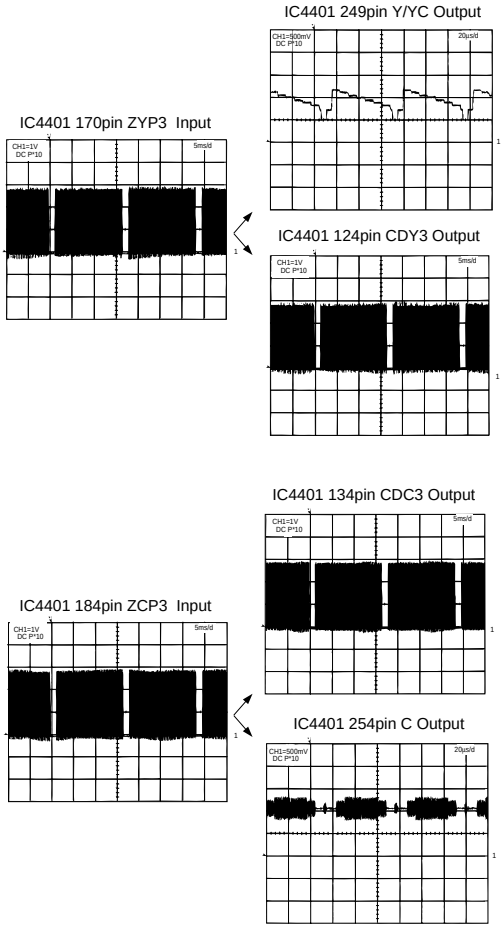
Major circuits to be checked
- Y data between CAM ENGINE (IC201) and VIO ENGINE (IC4401) is missing.

11. SIGNAL FLOW DIAGRAMS

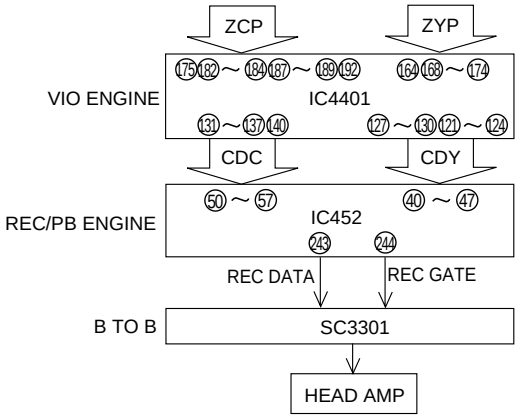
11-1. EE MODE FLOW (VIDEO)



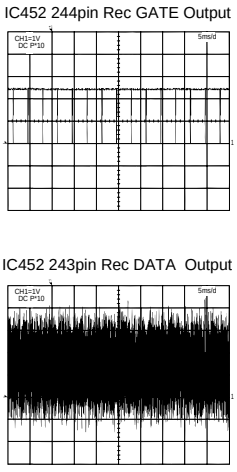
WAVEFORM DIAGRAM (DURING COLOR BAR RECORDING)


IC4401 249pin Y/YC Output
IC4401 170pin ZYP3 Input
IC4401 124pin CDY3 Output
IC4401 134pin CDC3 Output
IC4401 184pin ZCP3 Input
IC4401 254pin C Output

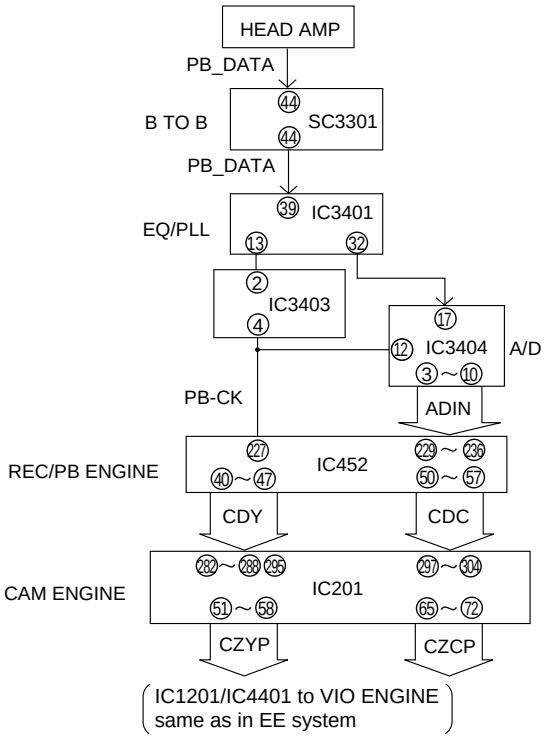
11-2. FLOW IN REC MODE (VIDEO)



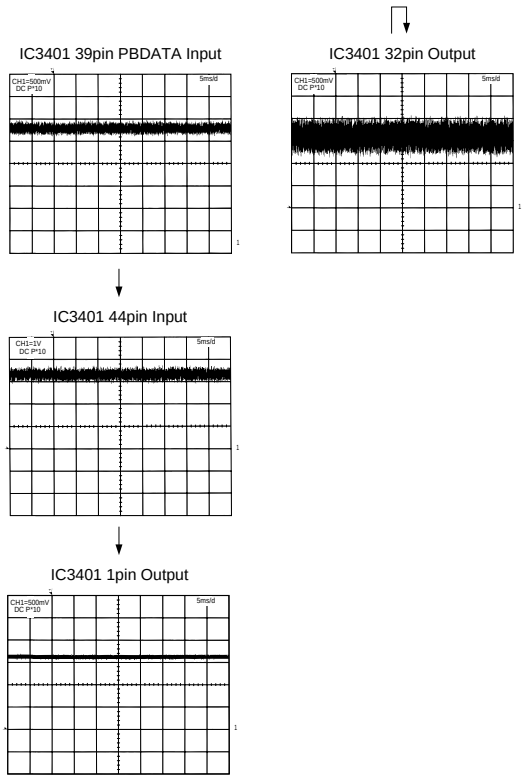
WAVEFORM DIAGRAM (DURING COLOR BAR RECORDING)



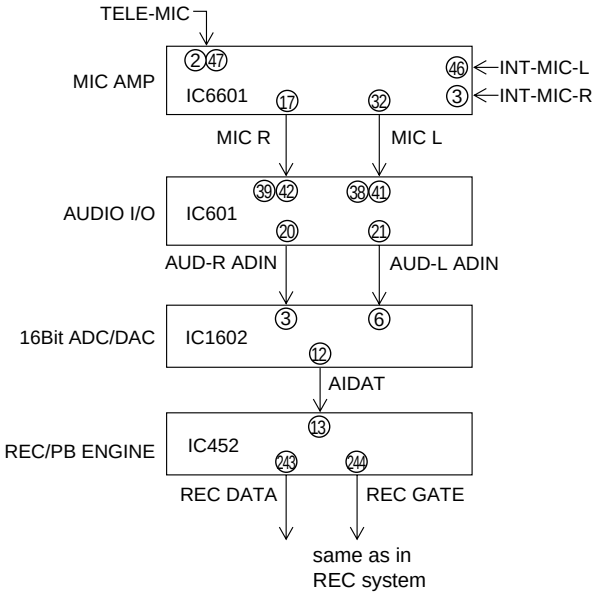
11-3. FLOW IN PB MODE (VIDEO)



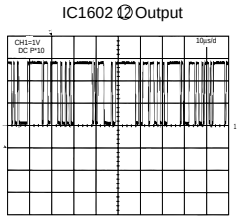
WAVEFORM DIAGRAM (DURING COLOR BAR PLAYBACK)



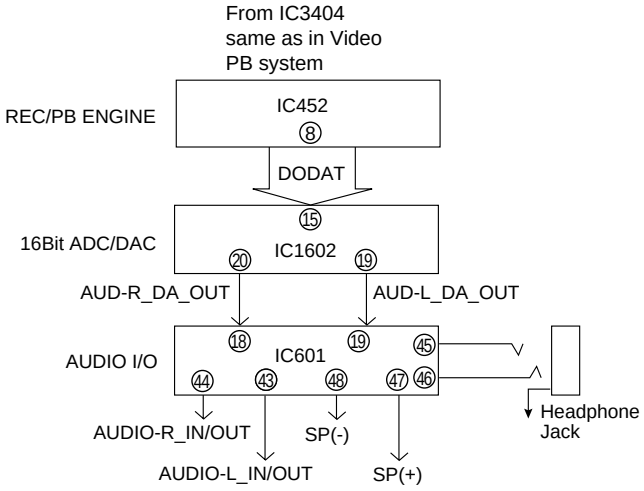
11-4. FLOW IN REC MODE (AUDIO)



WAVEFORM DIAGRAM (1.6 kHz SINE WAVE)

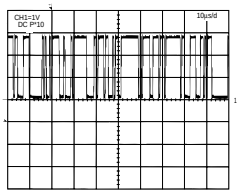


11-5. FLOW IN PB MODE (AUDIO)



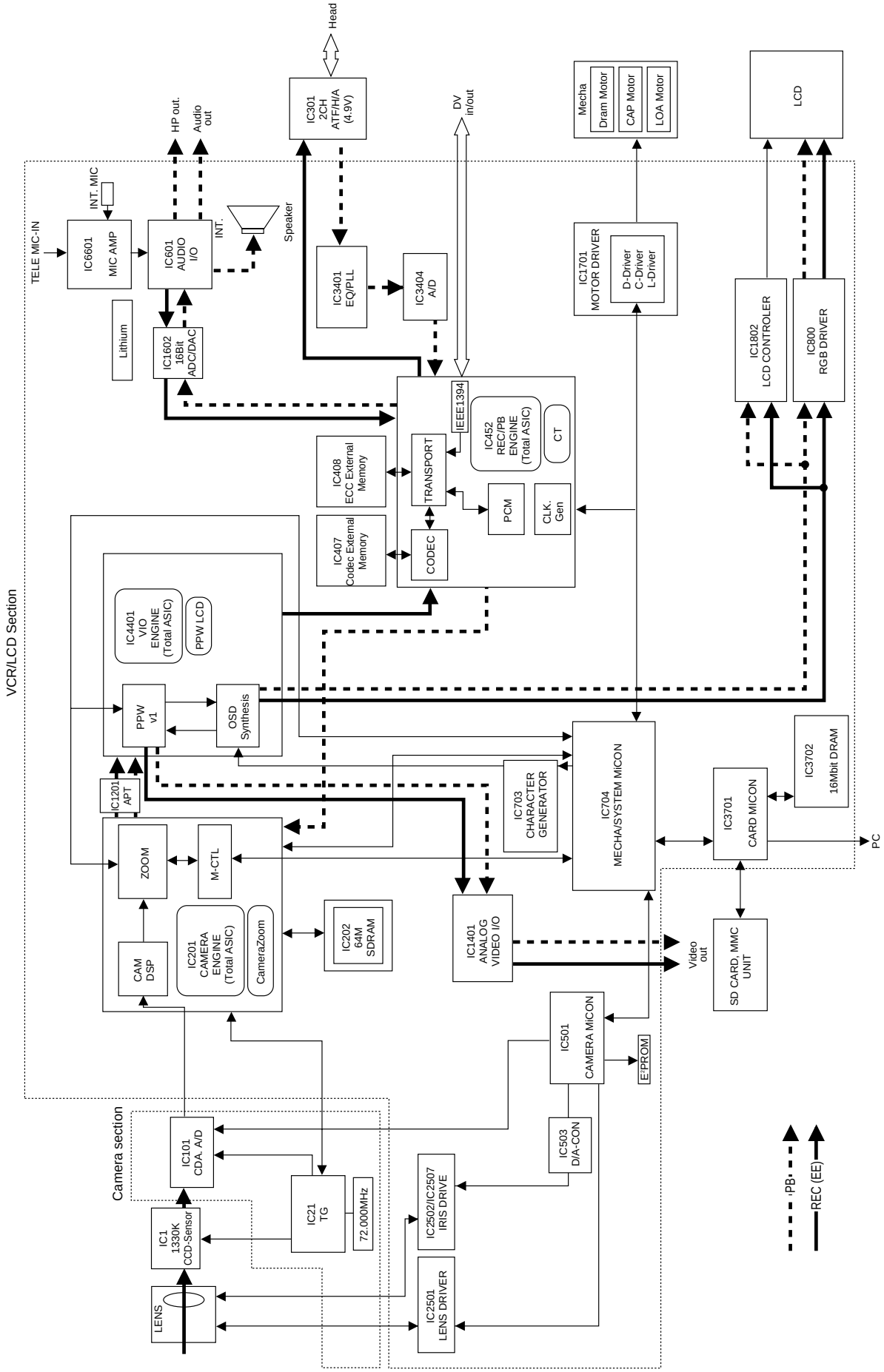
WAVEFORM DIAGRAM (1.6 kHz SINE WAVE)

IC1602 ⑮ DODAT Input

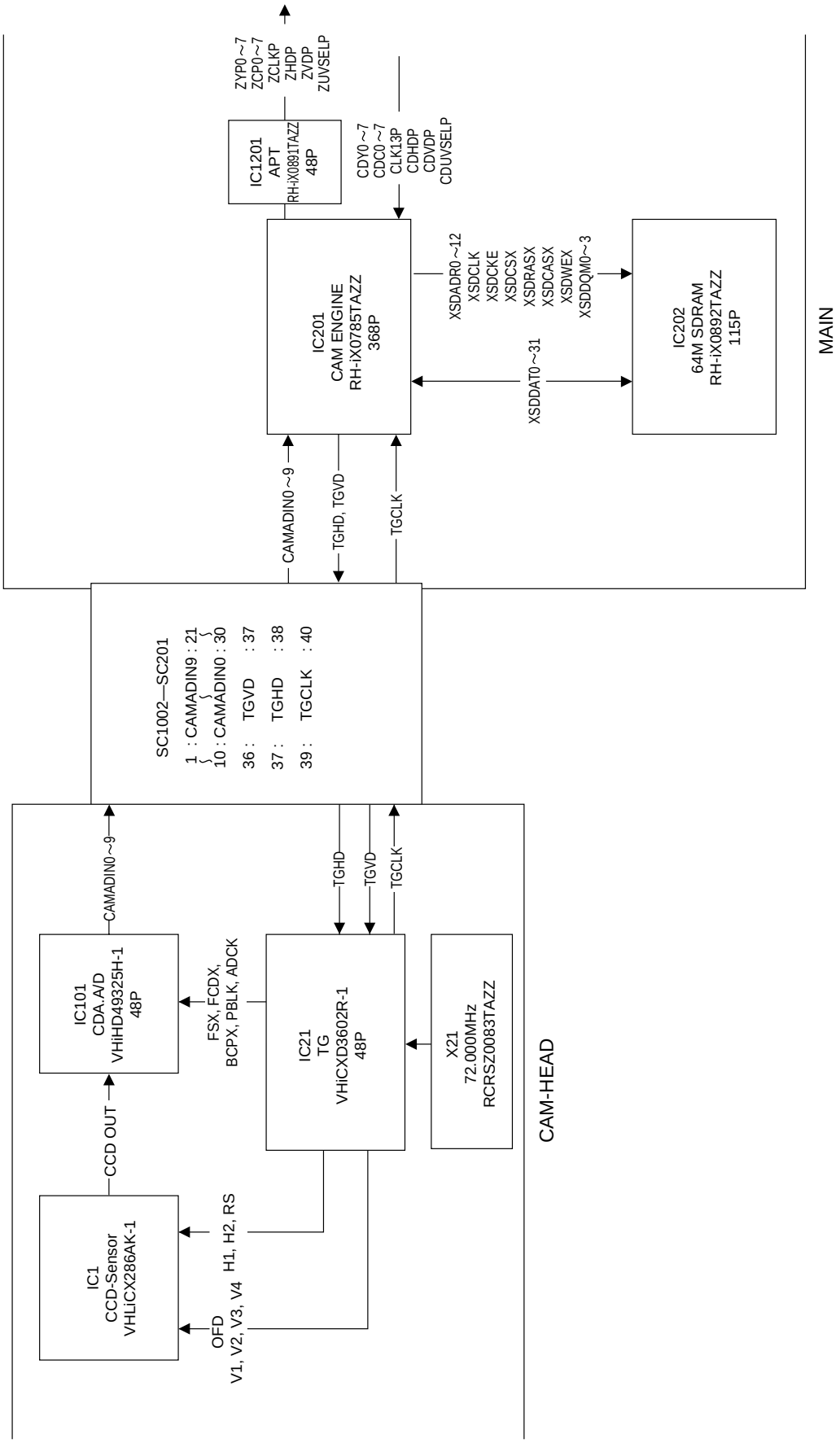


12. BLOCK DIAGRAMS

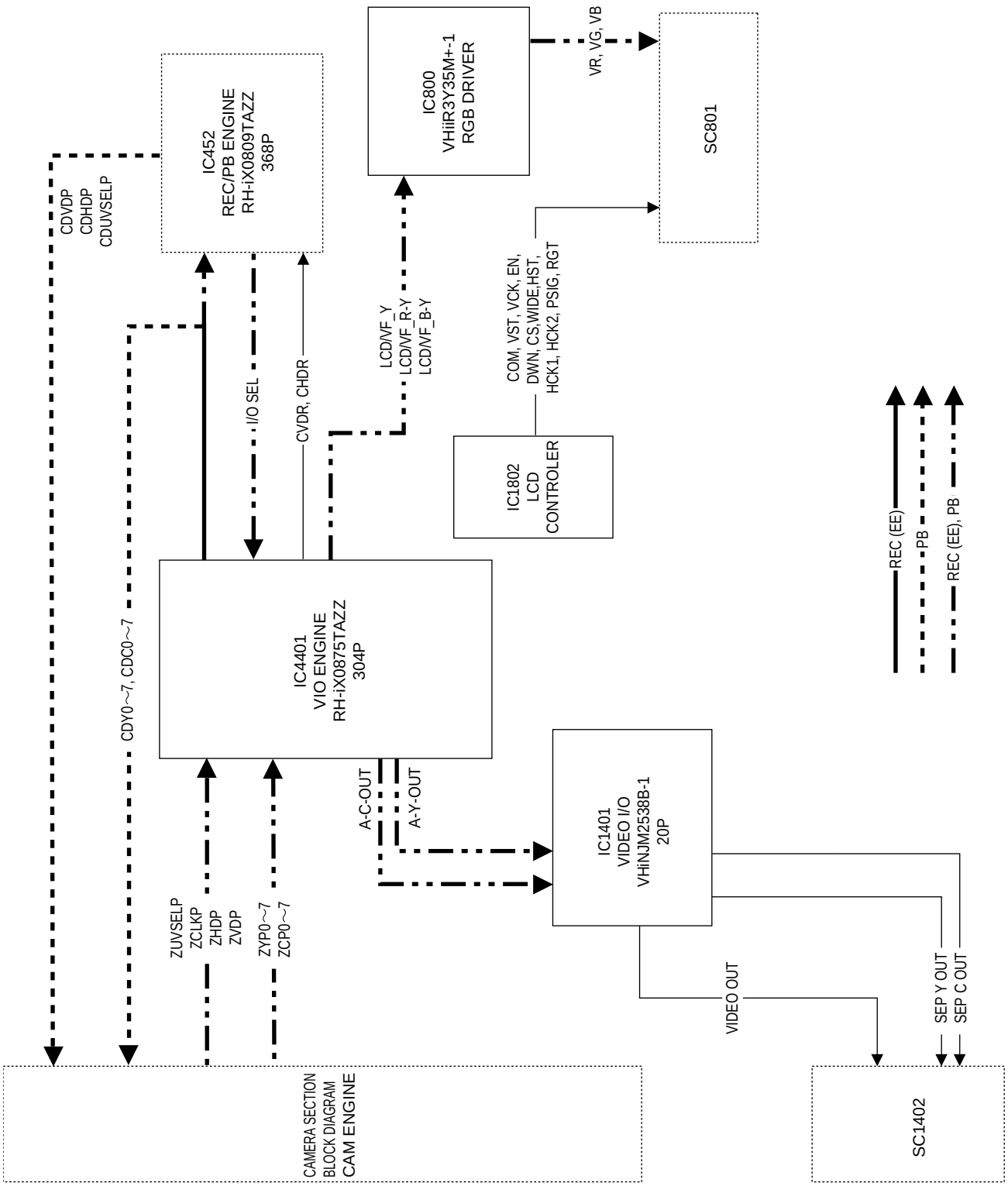
12-1. SYSTEM BLOCK DIAGRAM



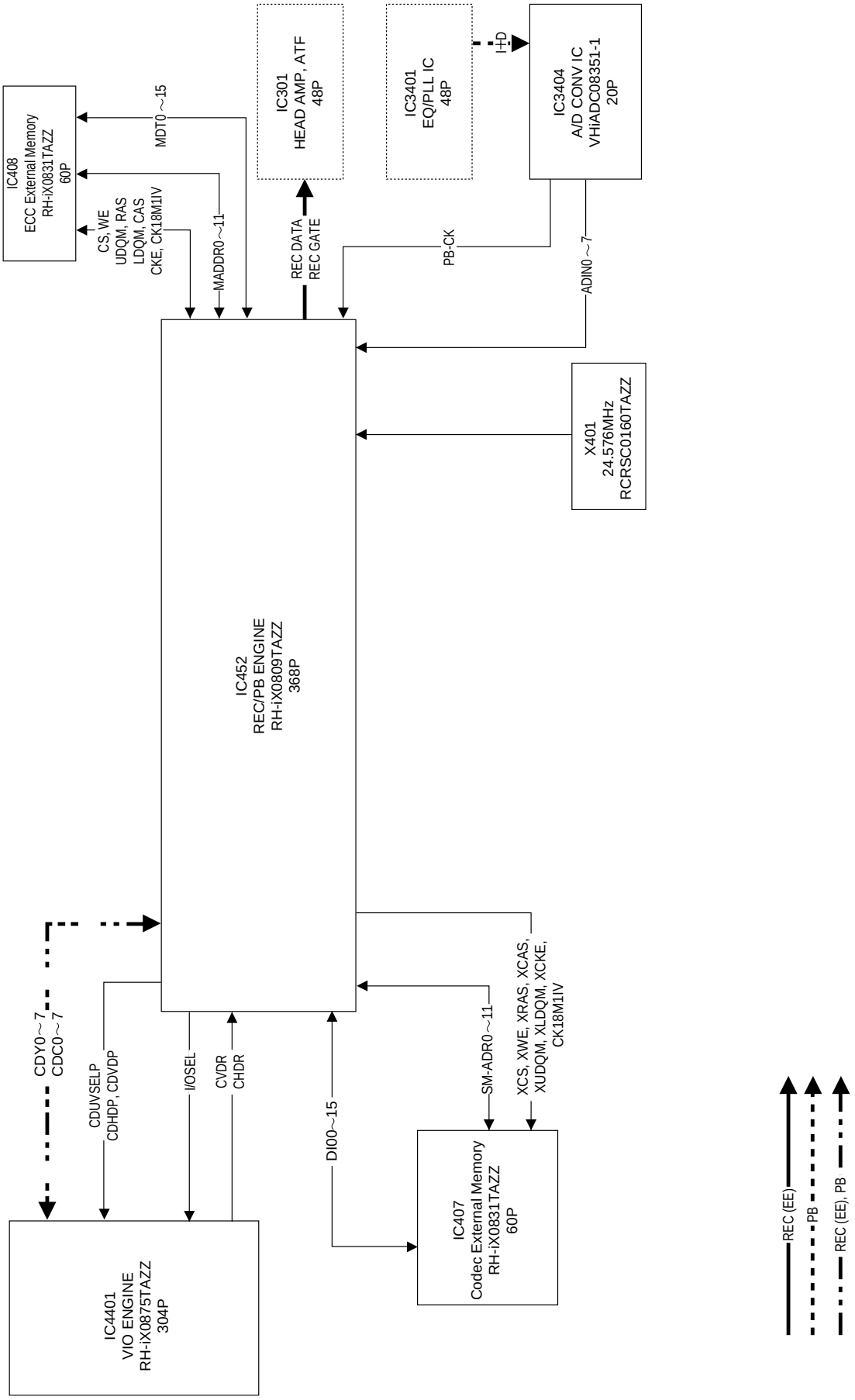
12-2. CAMERA SECTION BLOCK DIAGRAM



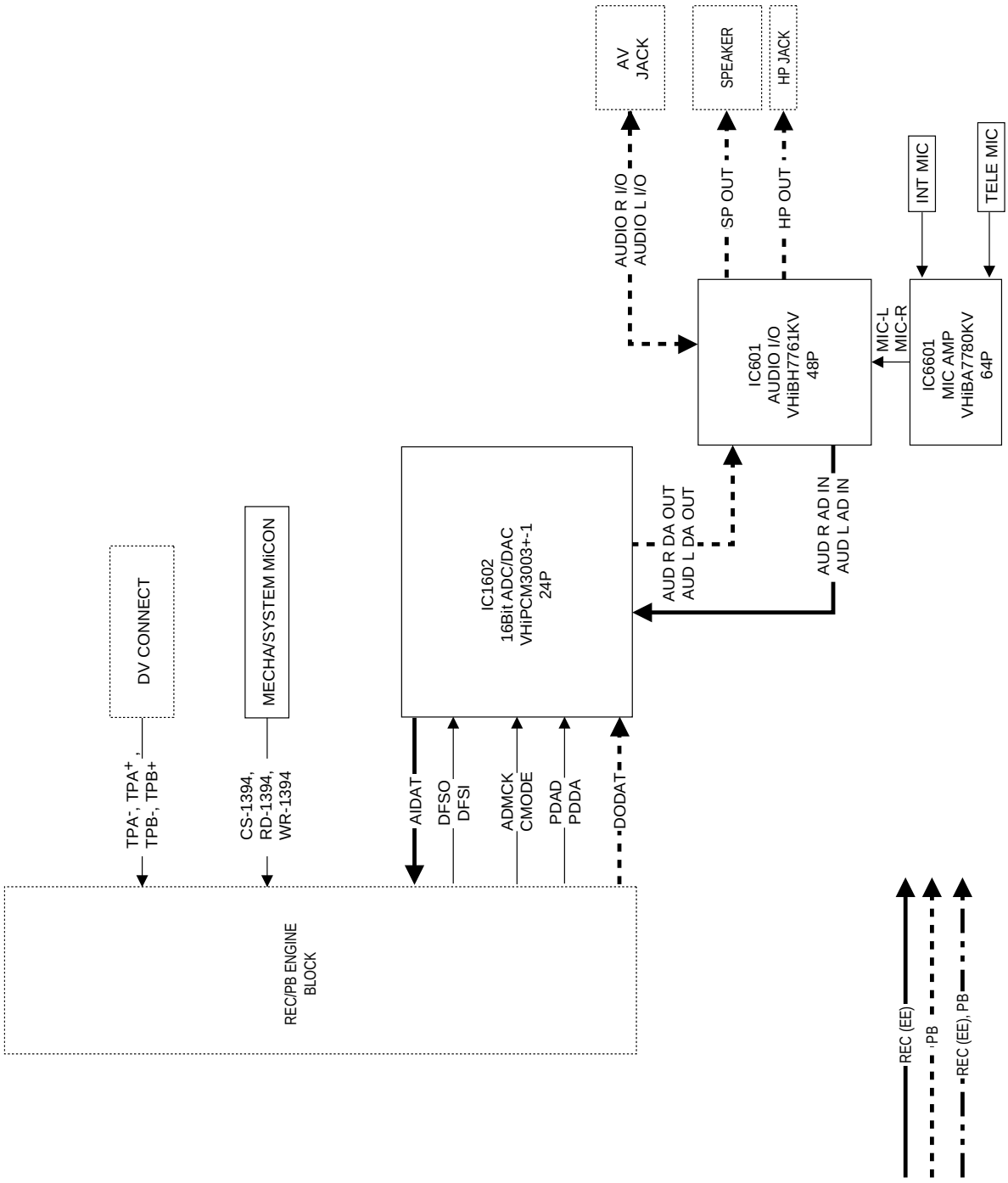
12-3. VIO ENGINE SECTION BLOCK DIAGRAM



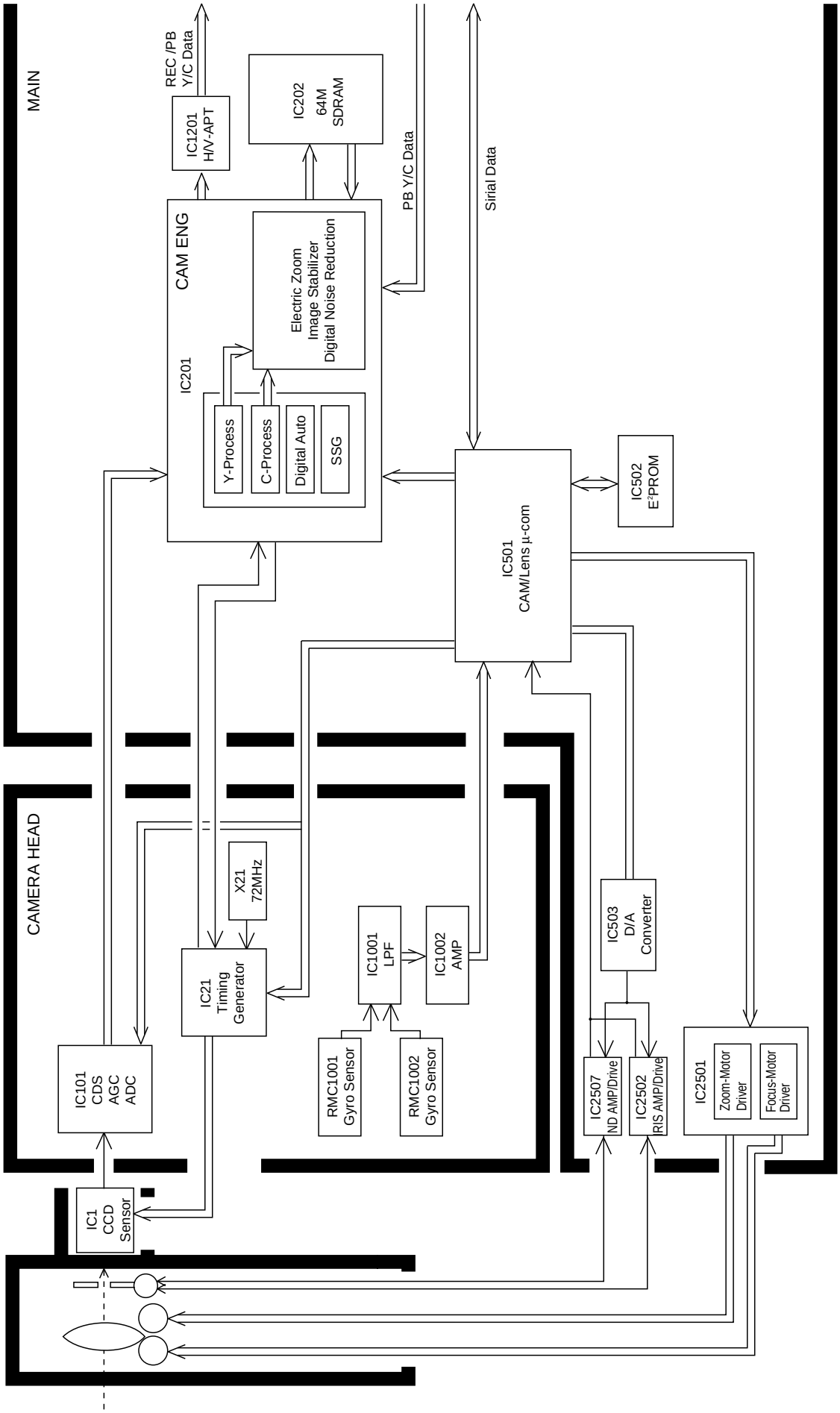
12-4. REC/PB SECTION BLOCK DIAGRAM



12-5. AUDIO/DIGITAL OUTPUT SECTION BLOCK DIAGRAM

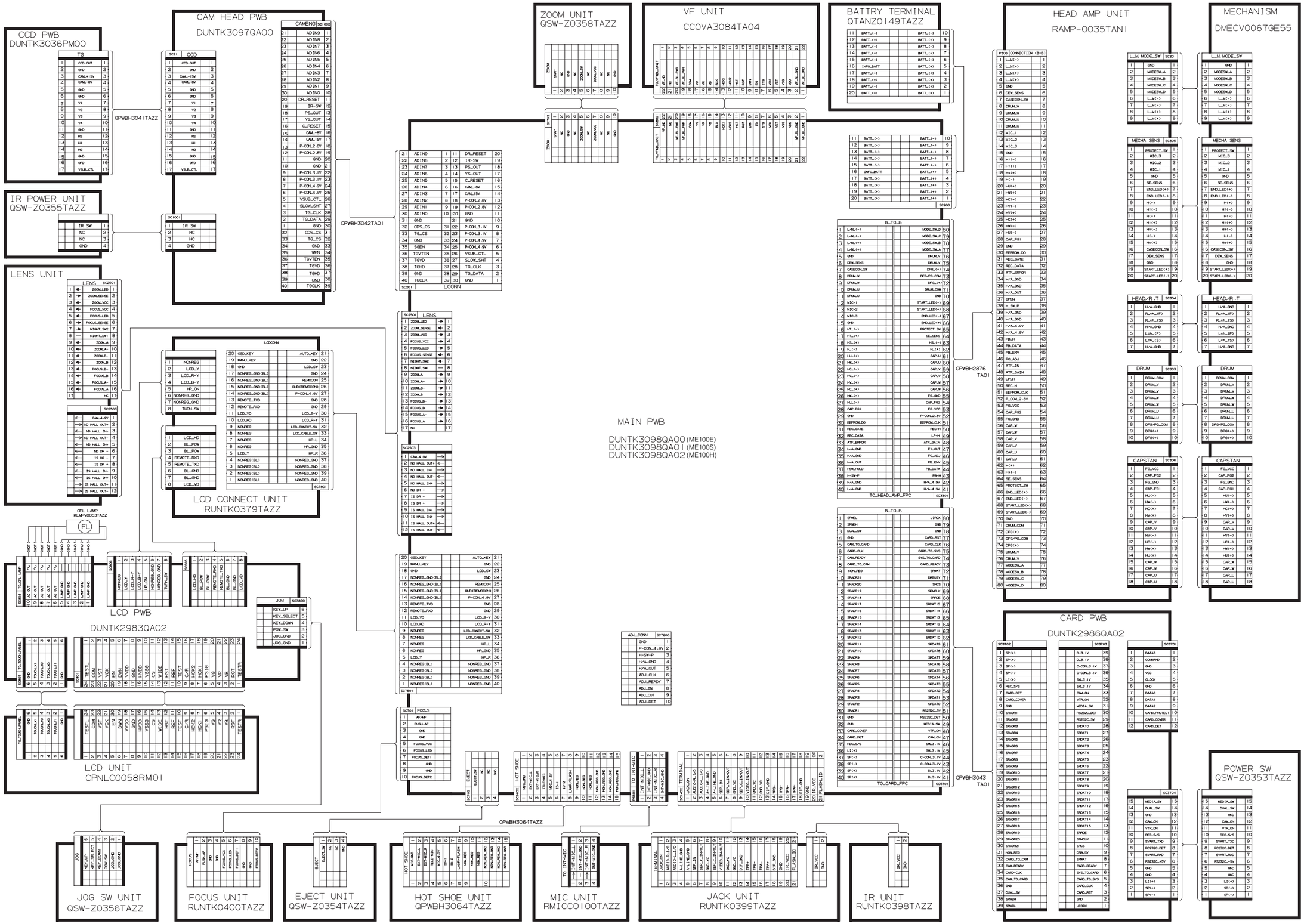


12-6. CAMERA CIRCUIT BLOCK DIAGRAM

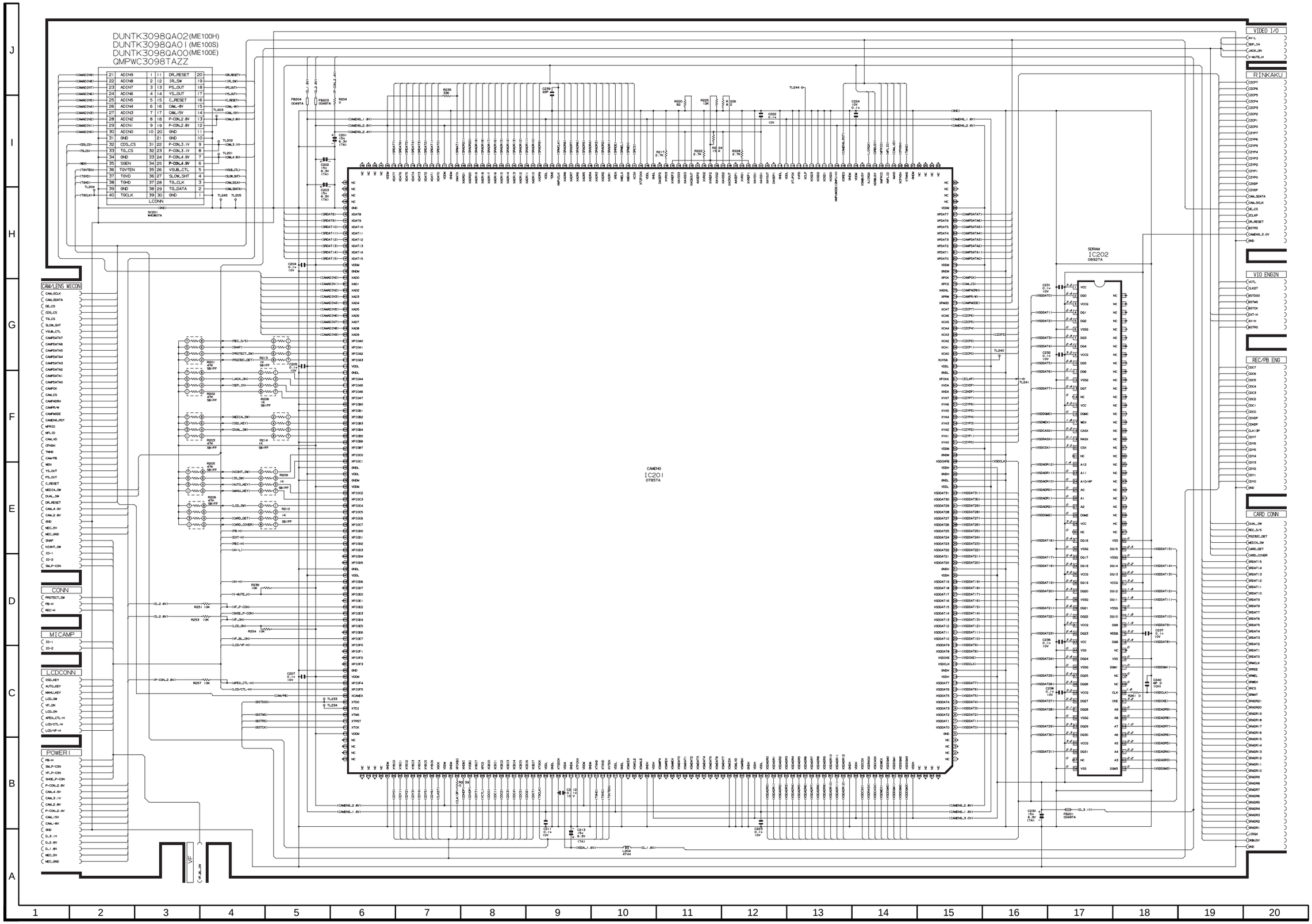


- M E M O -

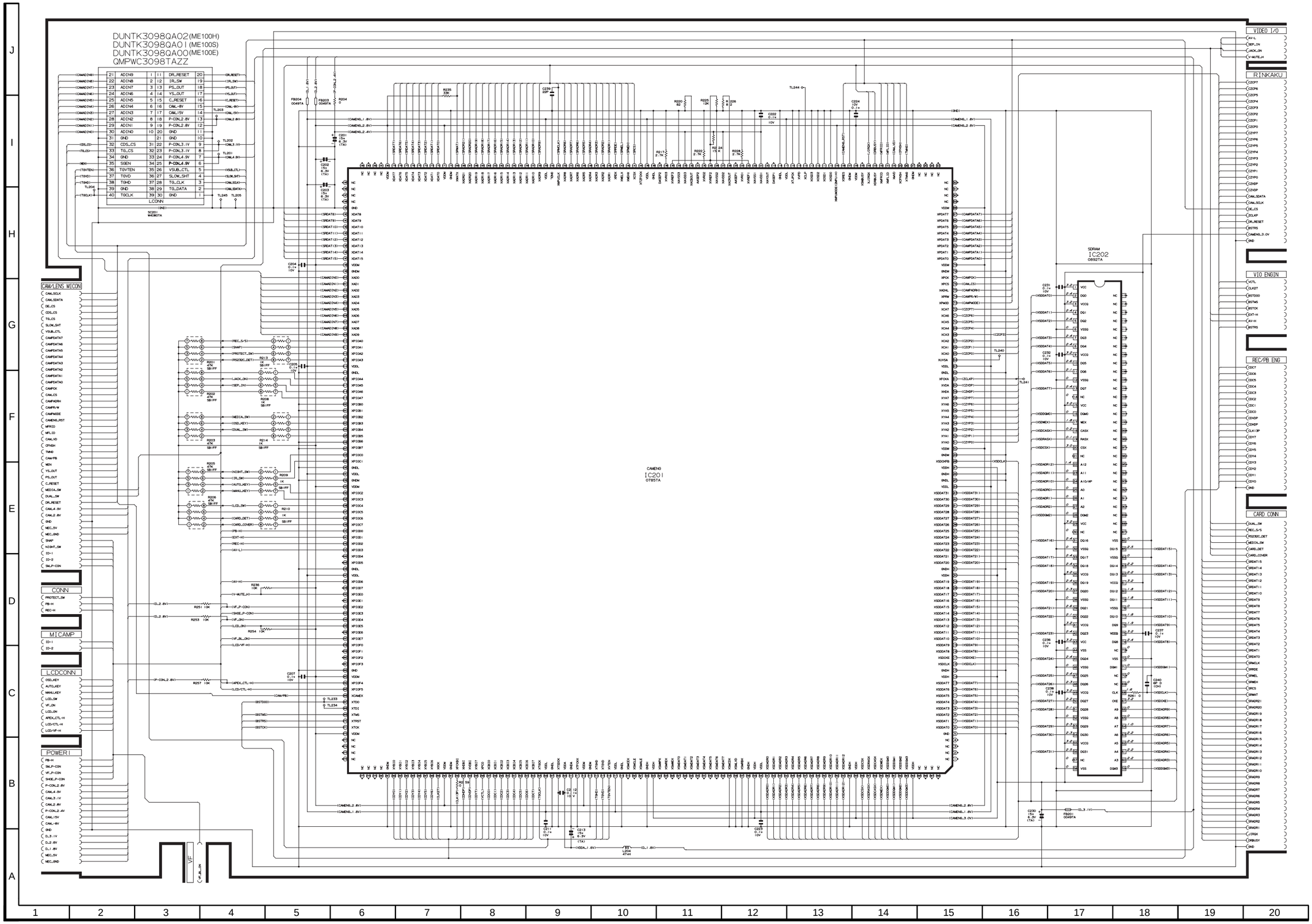
13. SCHEMATIC DIAGRAMS 13-1. OVERALL SCHEMATIC DIAGRAM



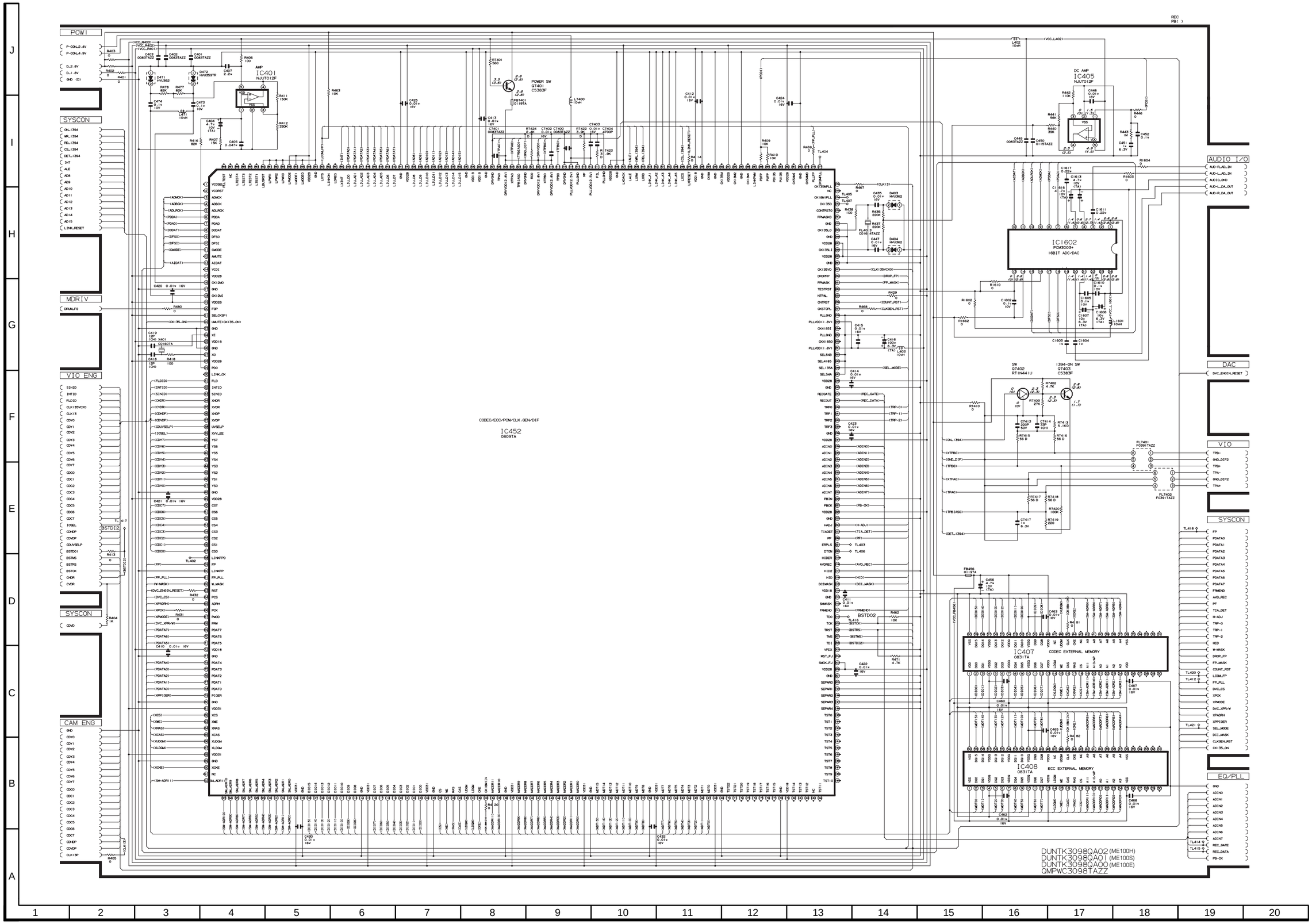
13-2. CAMERA ENGINE SCHEMATIC DIAGRAM



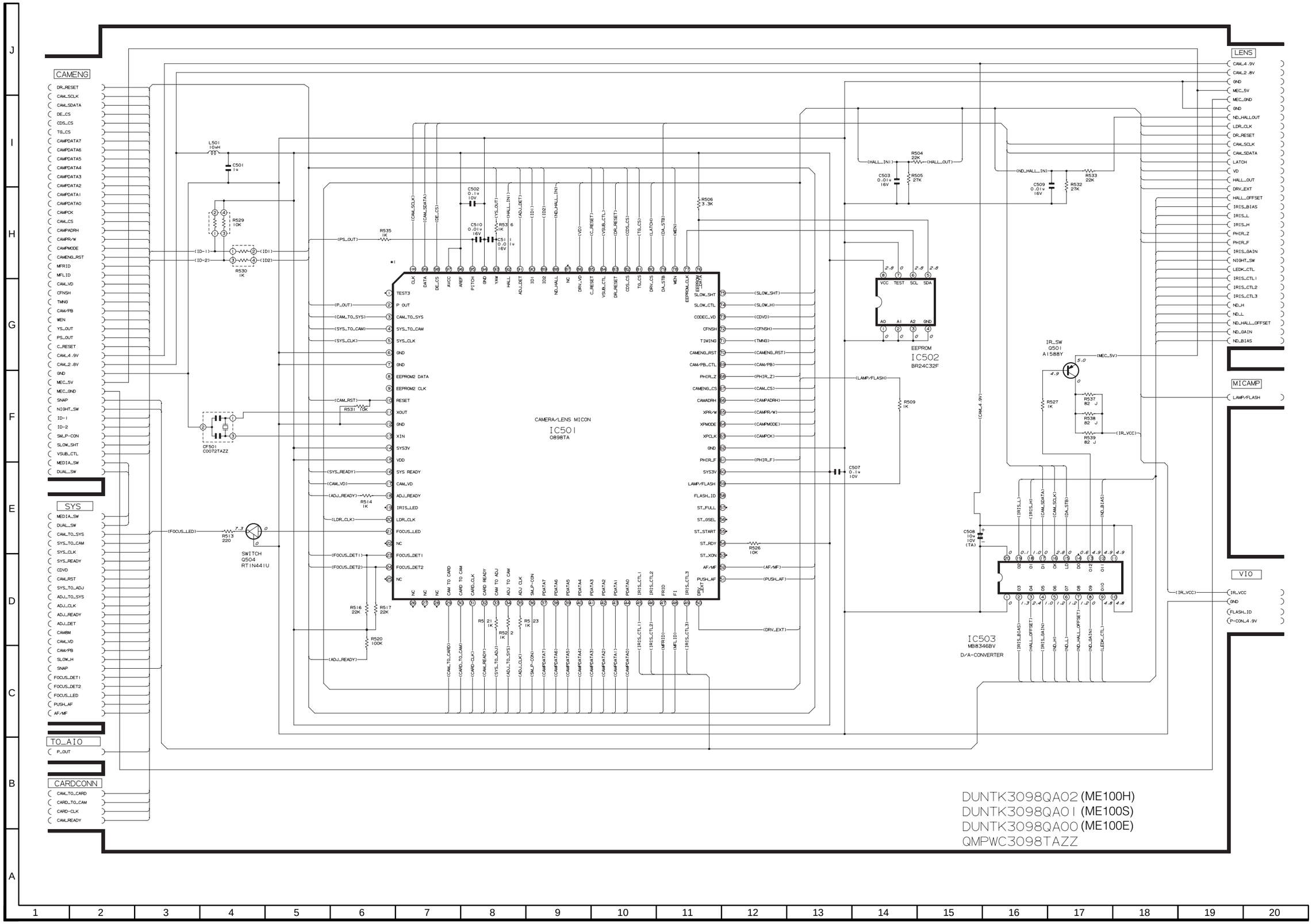
13-2. CAMERA ENGINE SCHEMATIC DIAGRAM



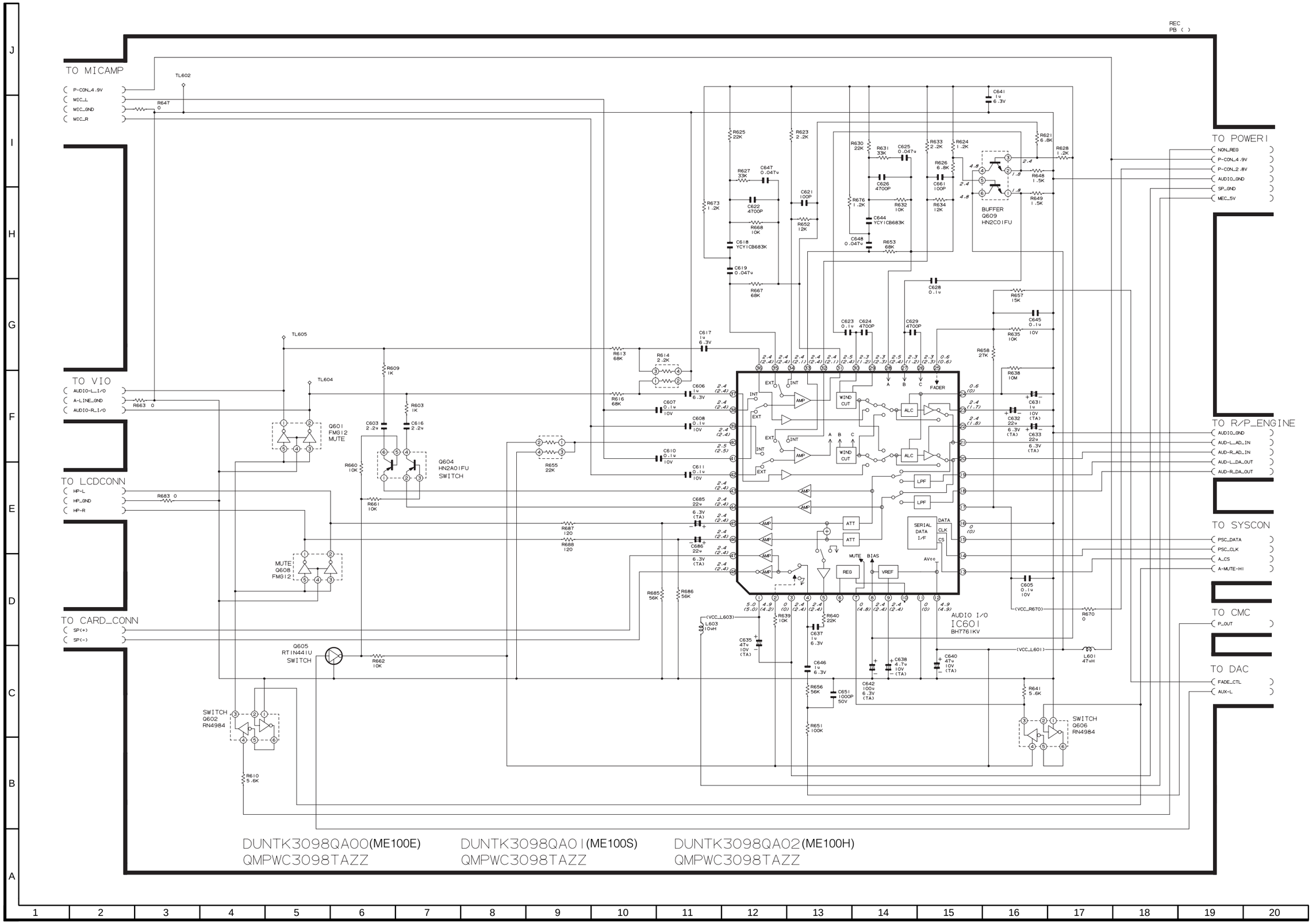
13-3. REC/PB ENGINE SCHEMATIC DIAGRAM



13-4. CMC SCHEMATIC DIAGRAM



13-5. AUDIO I/O SCHEMATIC DIAGRAM

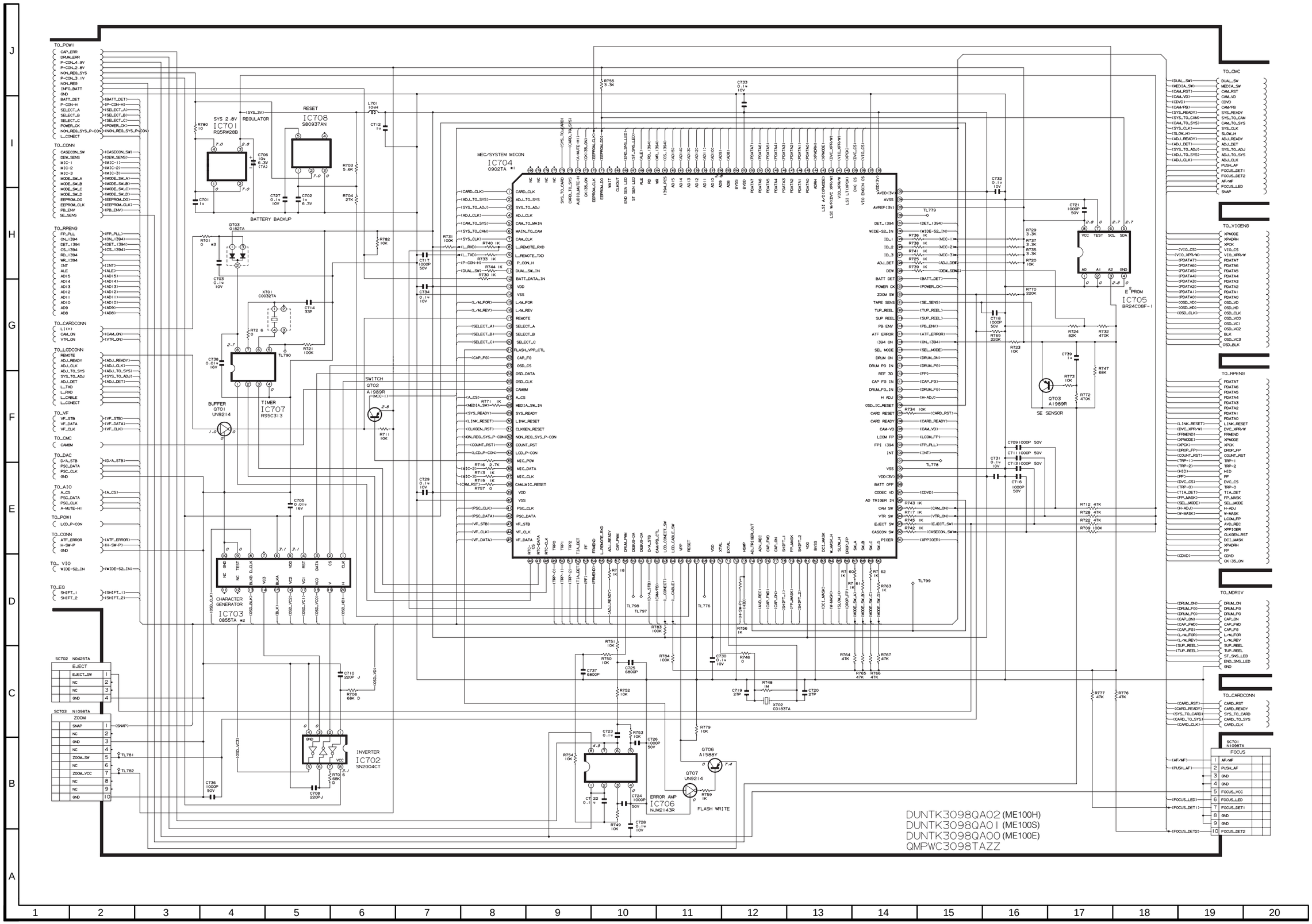


DUNTK3098QA00(ME100E) QMPWC3098TAZZ

DUNTK3098QA01(ME100S) QMPWC3098TAZZ

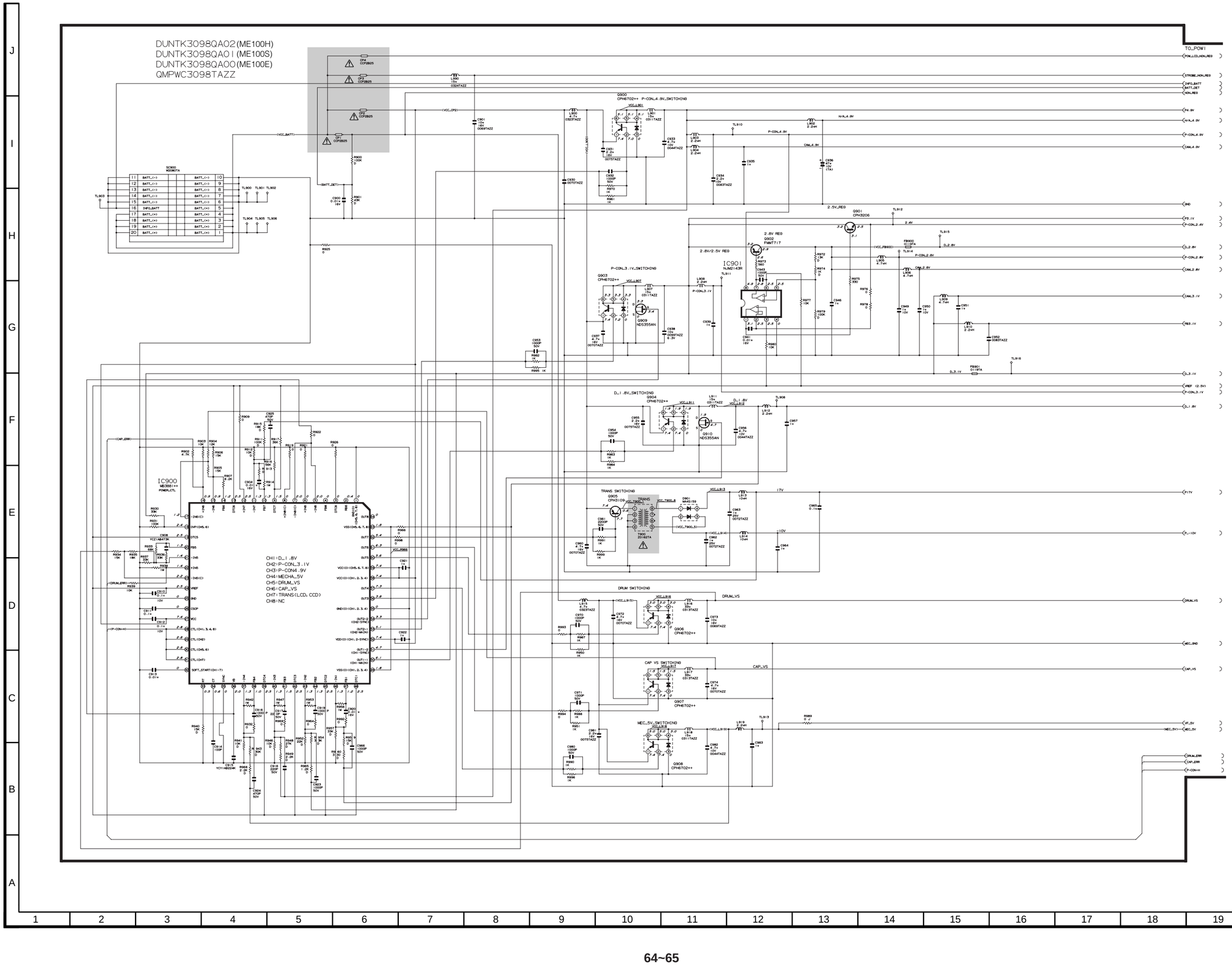
DUNTK3098QA02(ME100H) QMPWC3098TAZZ

13-6. MEC/SYS MiCON SCHEMATIC DIAGRAM

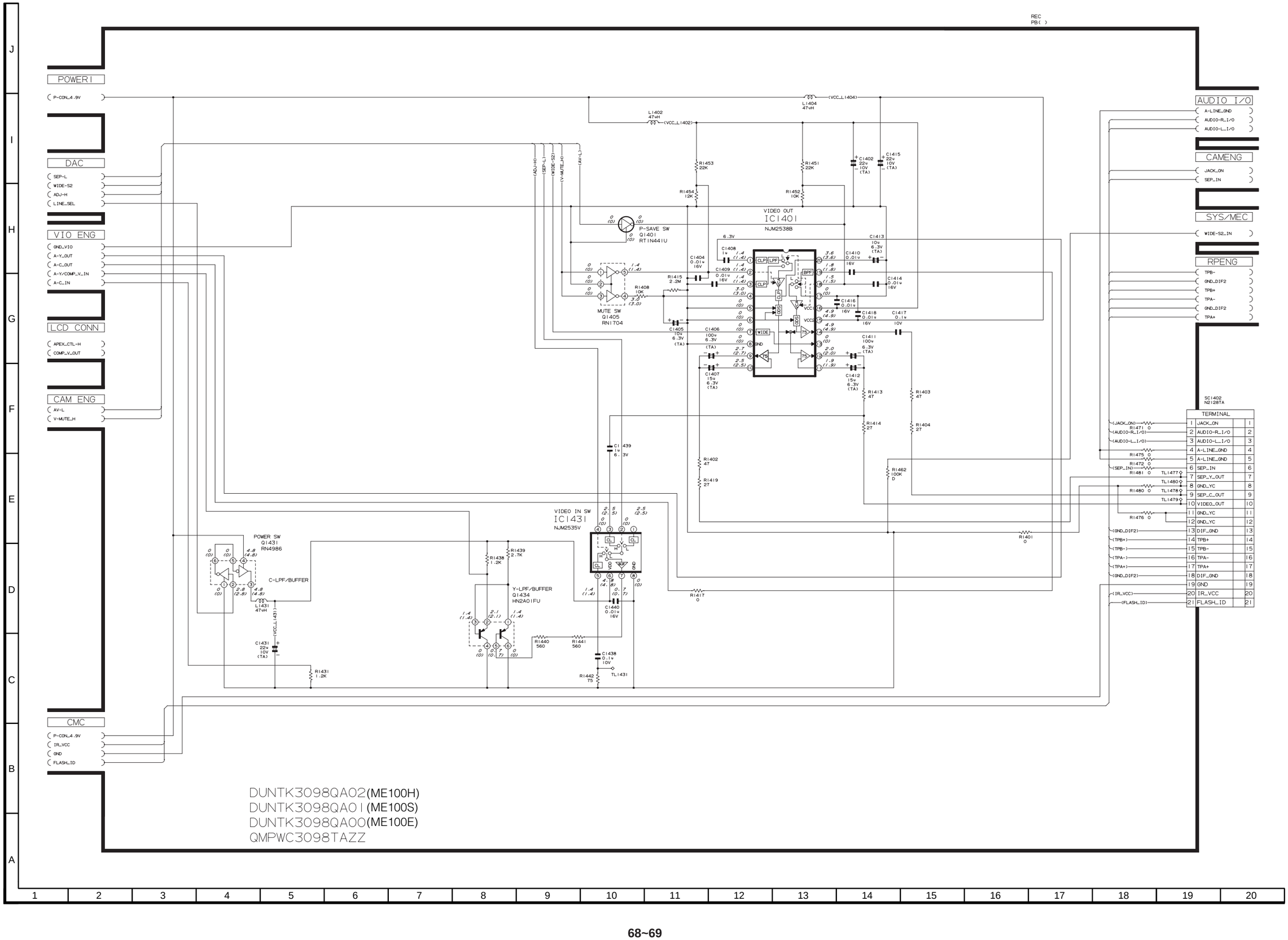


13-7. POWER2 SCHEMATIC DIAGRAM

⚠ AND SHADED COMPONENTS=SAFETY RELATED PARTS

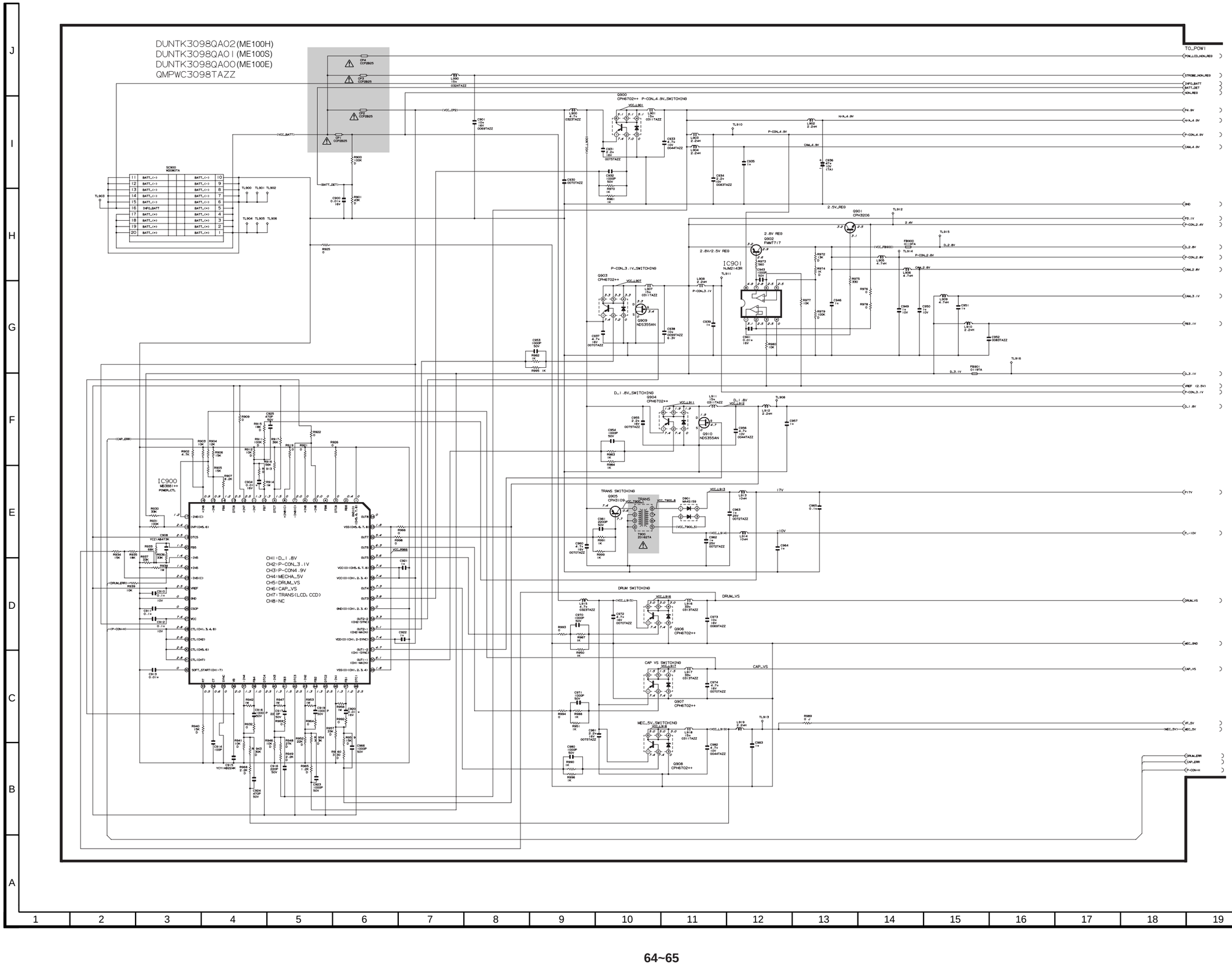


13-9. VIDEO I/O SCHEMATIC DIAGRAM

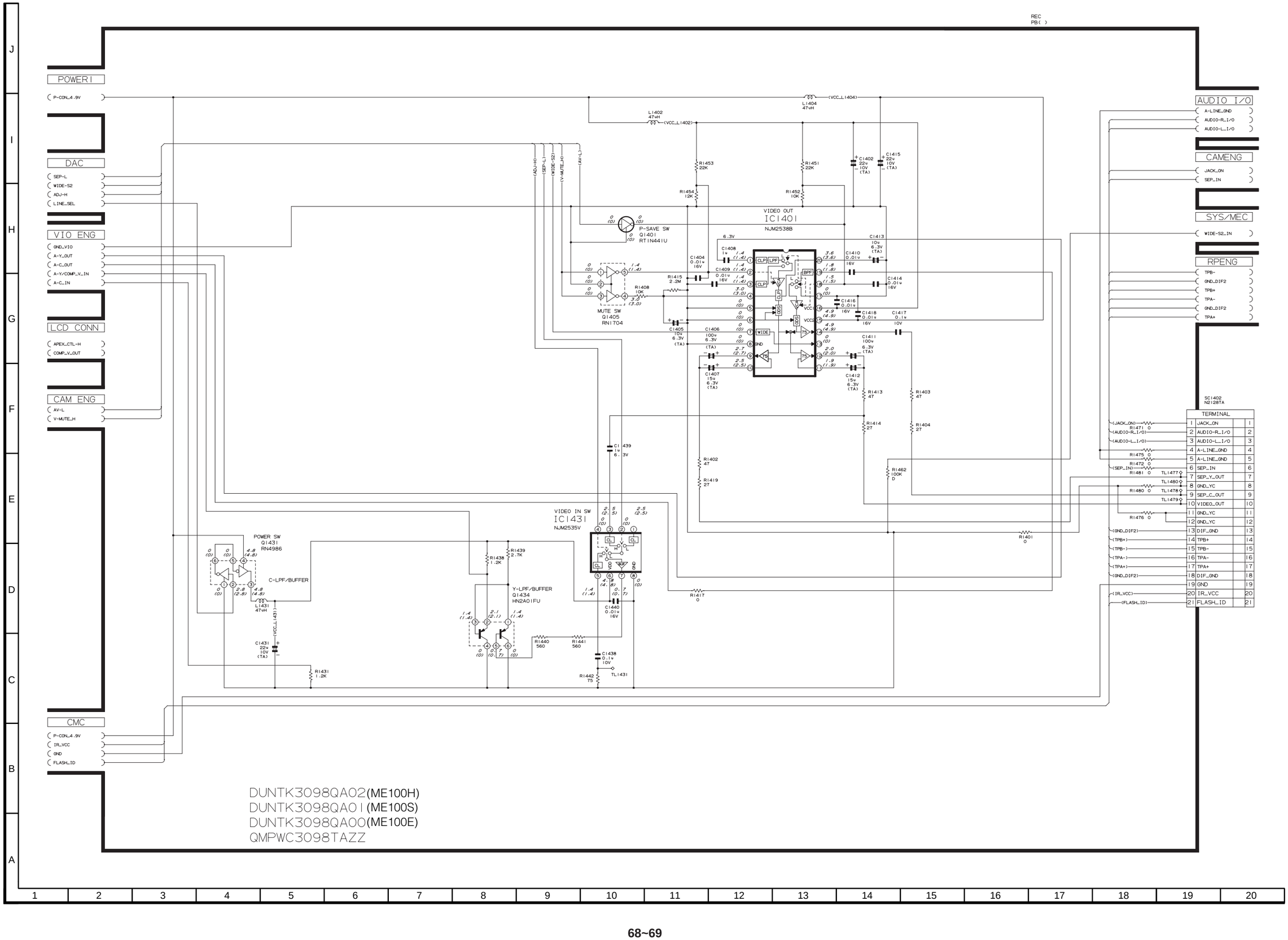


13-7. POWER2 SCHEMATIC DIAGRAM

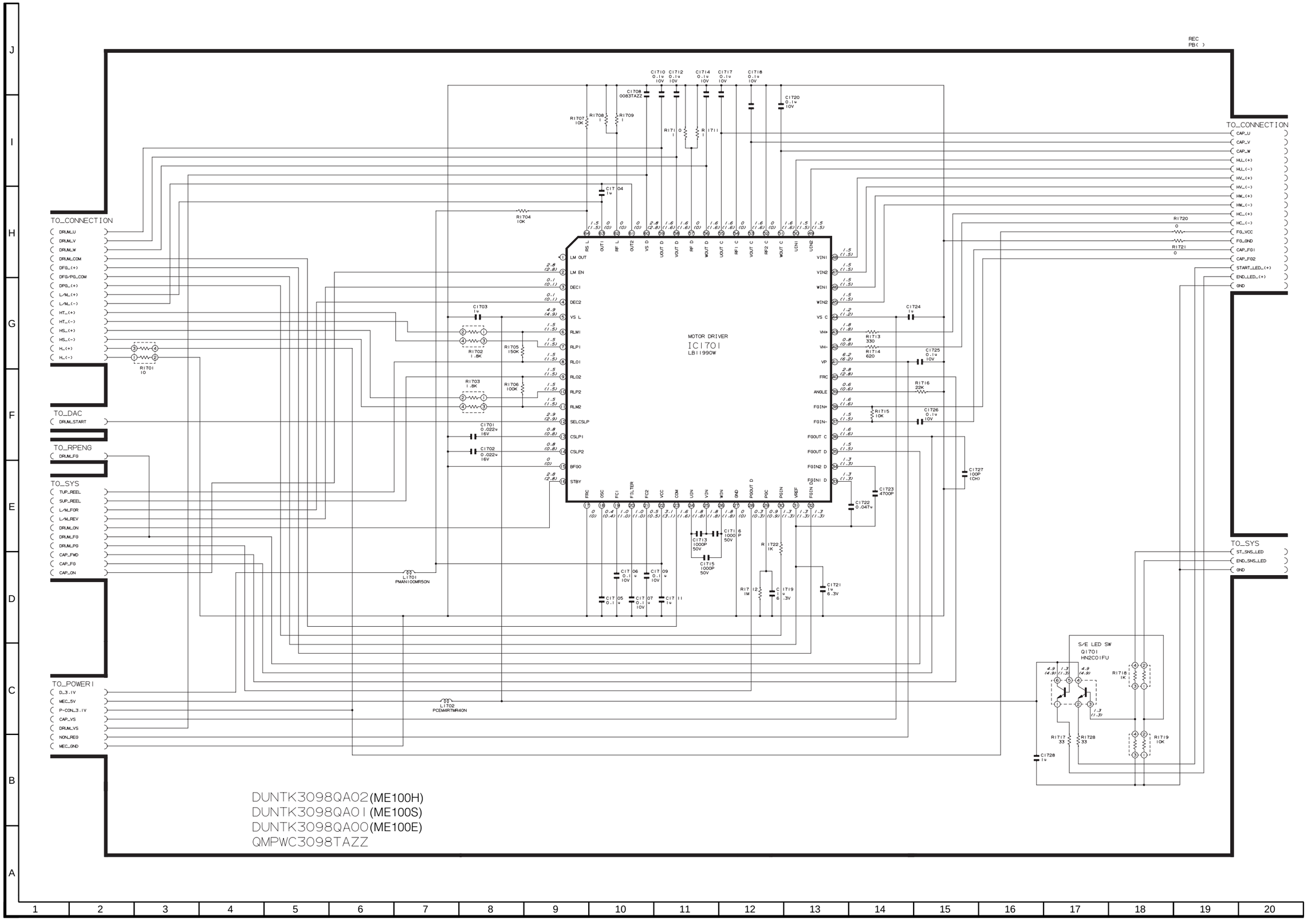
⚠ AND SHADED COMPONENTS=SAFETY RELATED PARTS



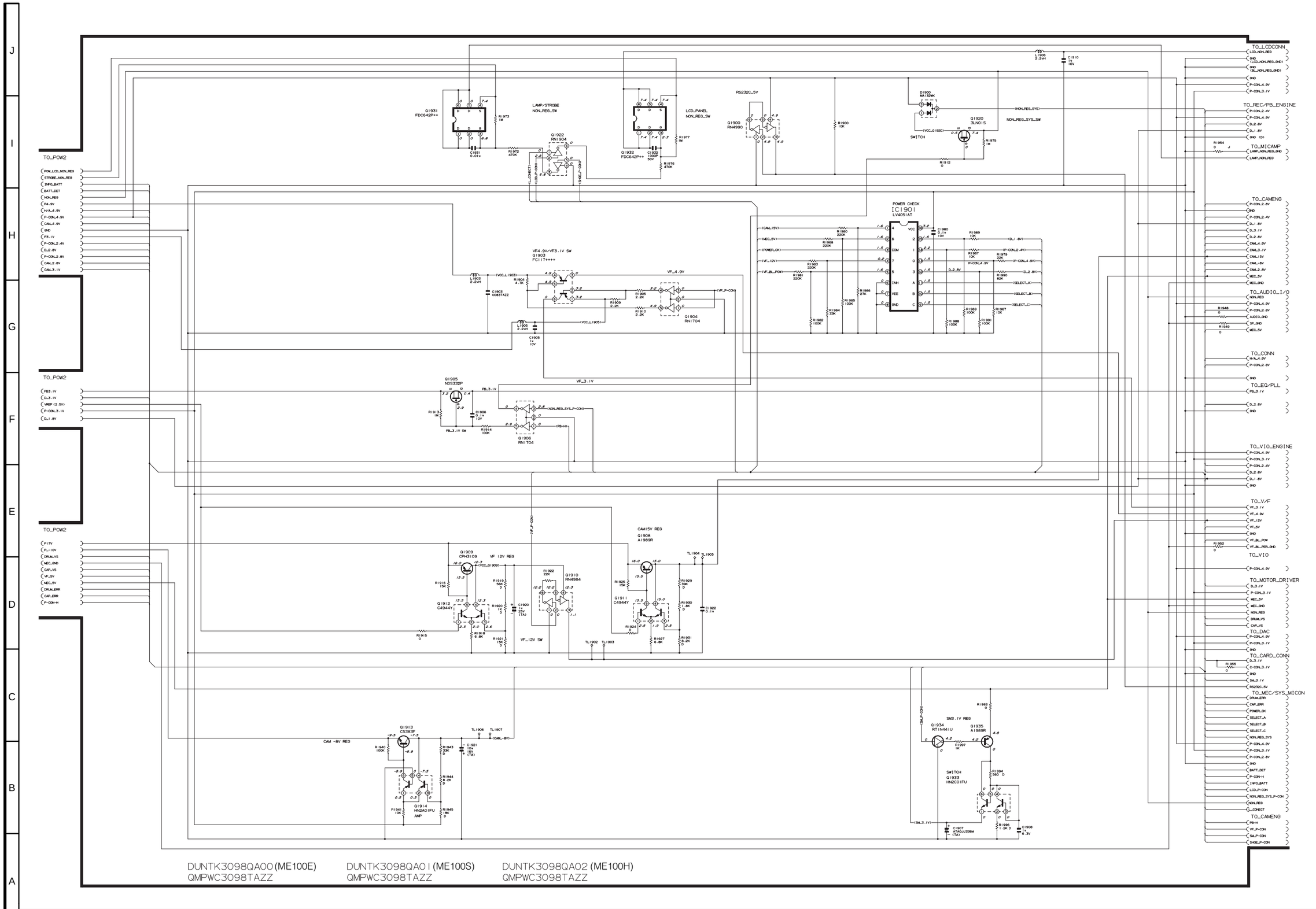
13-9. VIDEO I/O SCHEMATIC DIAGRAM



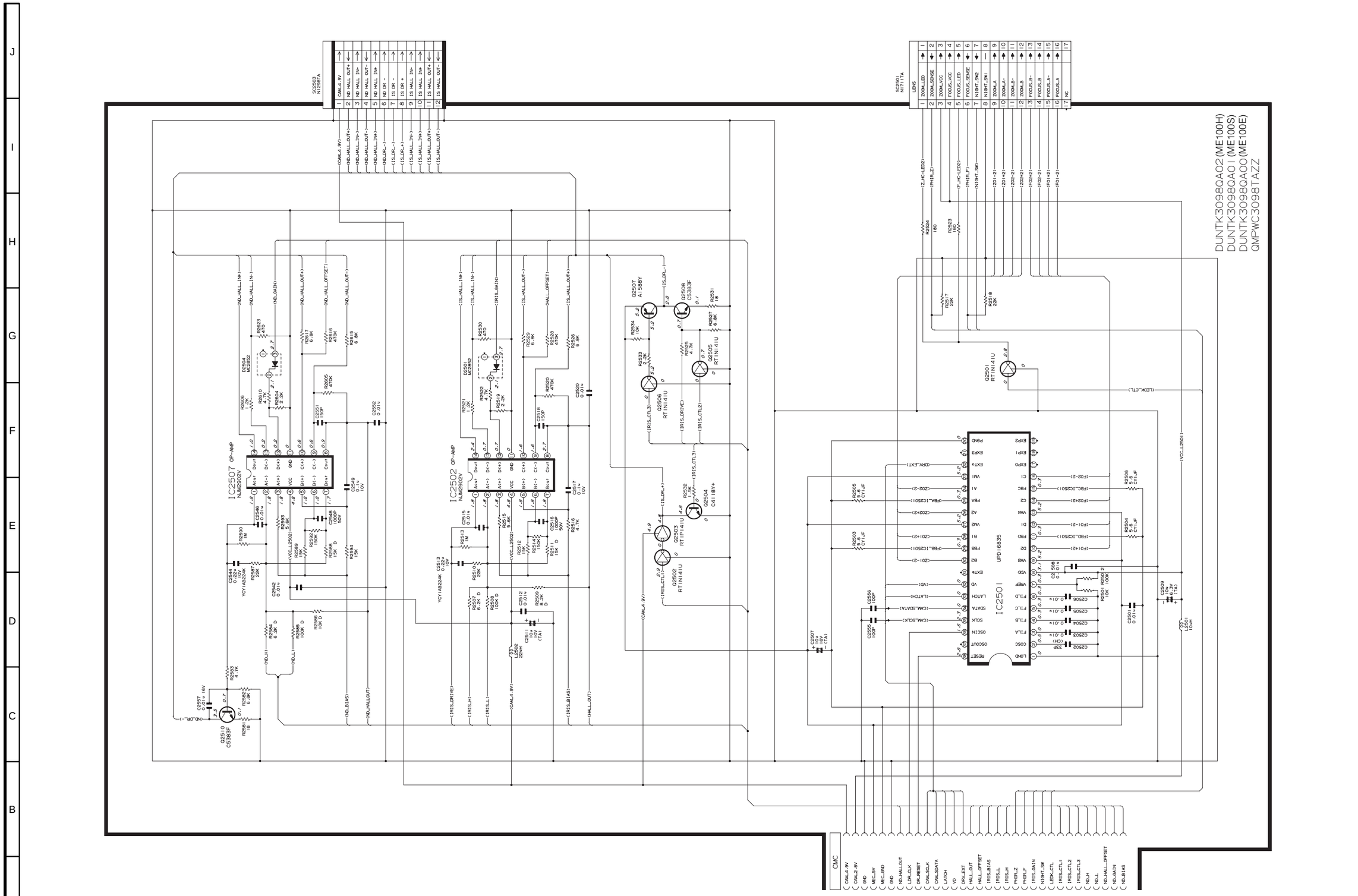
13-10. MOTOR DRIVER SCHEMATIC DIAGRAM



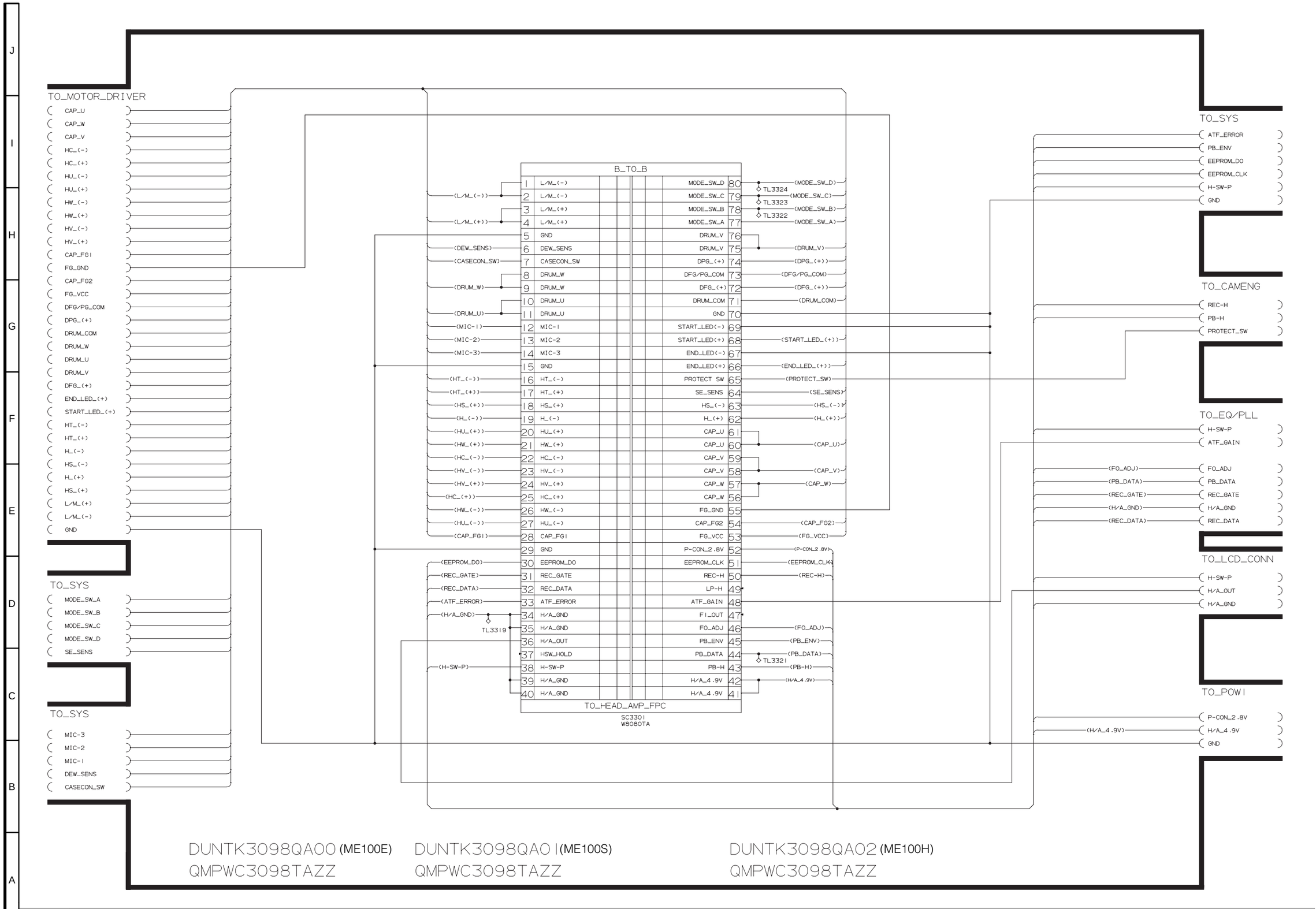
13-11. POWER1 SCHEMATIC DIAGRAM



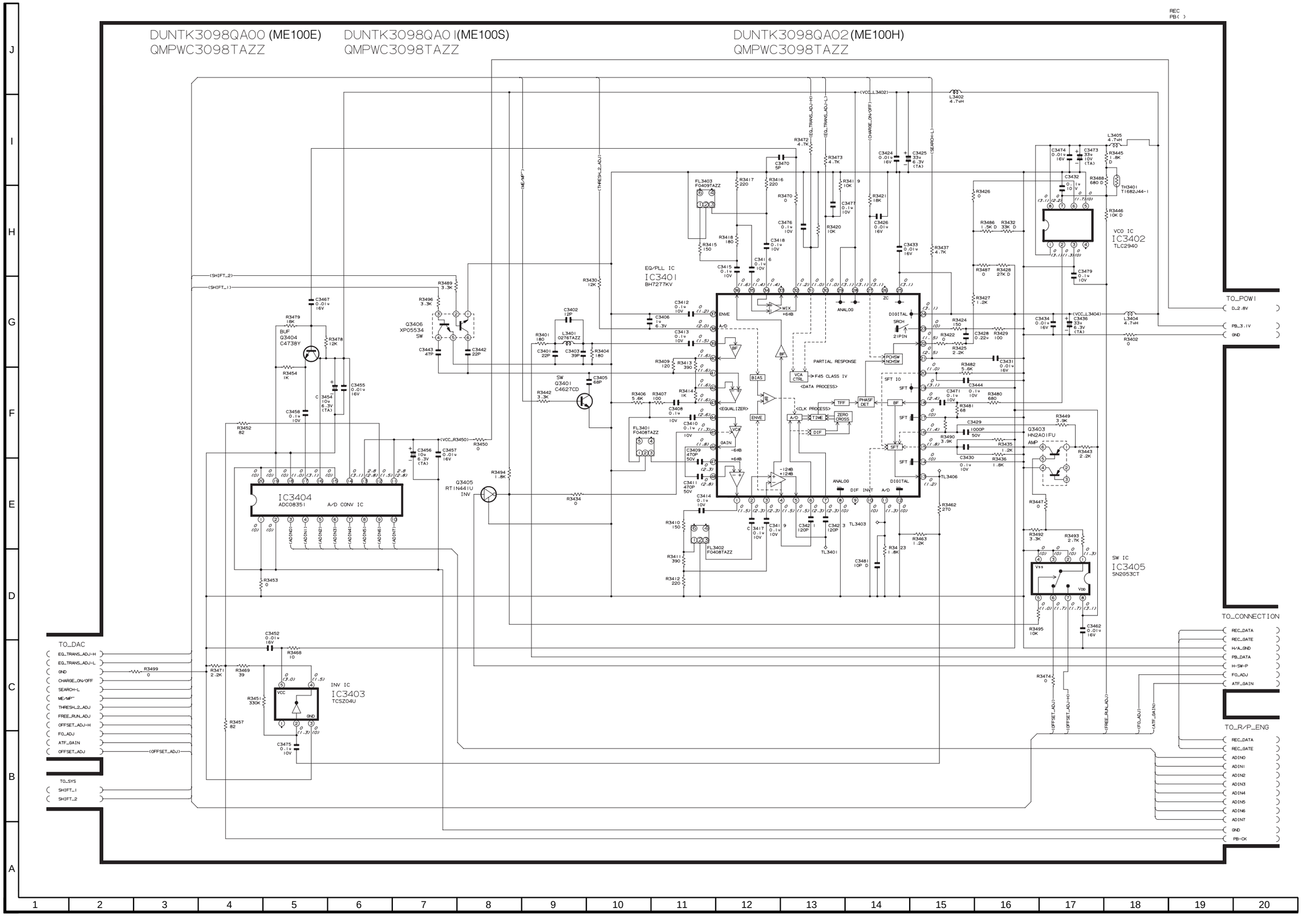
13-12. LENS DRIVE SCHEMATIC DIAGRAM



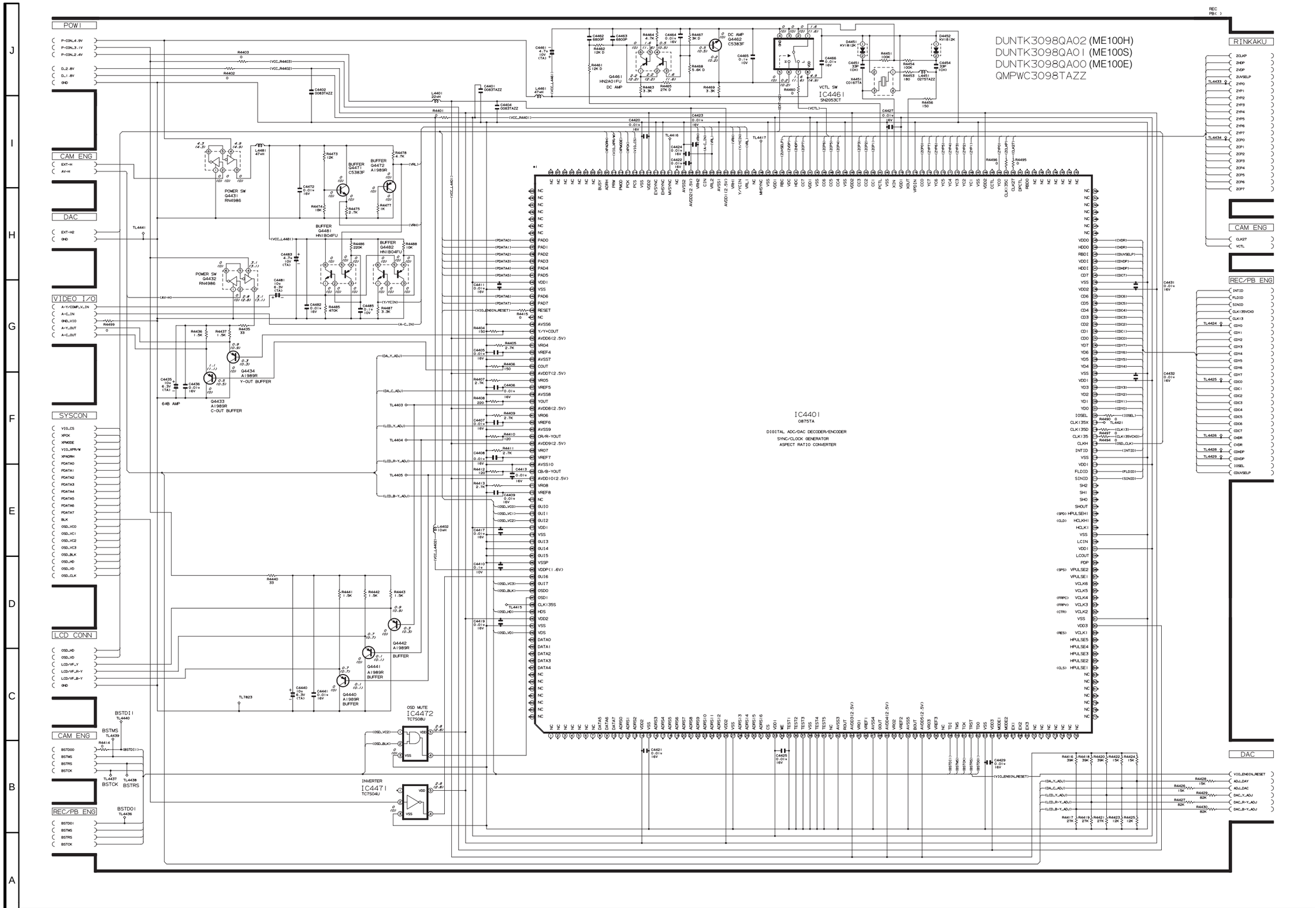
13-13. CONNECTION(B-B) SCHEMATIC DIAGRAM



13-14. EQ/PLL SCHEMATIC DIAGRAM



13-15. VIO ENGINE SCHEMATIC DIAGRAM



13-16. DAC SCHEMATIC DIAGRAM

DUNTK3098QA02(ME100H)
DUNTK3098QA01(ME100S)
DUNTK3098QA00(ME100E)
QMPWC3098TAZZ

D/A CONVERTER
IC4701
MB88344F

C4702 0.1u 10V

C4701 0.1u 10V

TO_VIO_ENG
EXT-H2
ADJ_DAY
ADJ_DAC
DAC_Y_ADJ
DAC_R-Y_ADJ
DAC_B-Y_ADJ
GND
VIO_ENGIN_RESET

TO_R/P_ENG
DVC_ENGIN_RESET

TO_SYS
PSC_DATA
PSC_CLK
D/A_STB
GND

TO_EQ/PLL
OFFSET_ADJ-H
OFFSET_ADJ
EQ_TRANS_ADJ-H
EQ_TRANS_ADJ-L
FREE_RUN_ADJ
THRESH_2_ADJ
CHARGE_ON/OFF
ME/MP
SEARCH-L
FO_ADJ
ATF_GAIN
GND

TO_VIDEO_I/O
WIDE-S2
LINE_SEL
SEP-L
ADJ-H

TO_MICAMP
MIC_SEL
WIND_OFF
MIC_ON
ZOOM_CTL

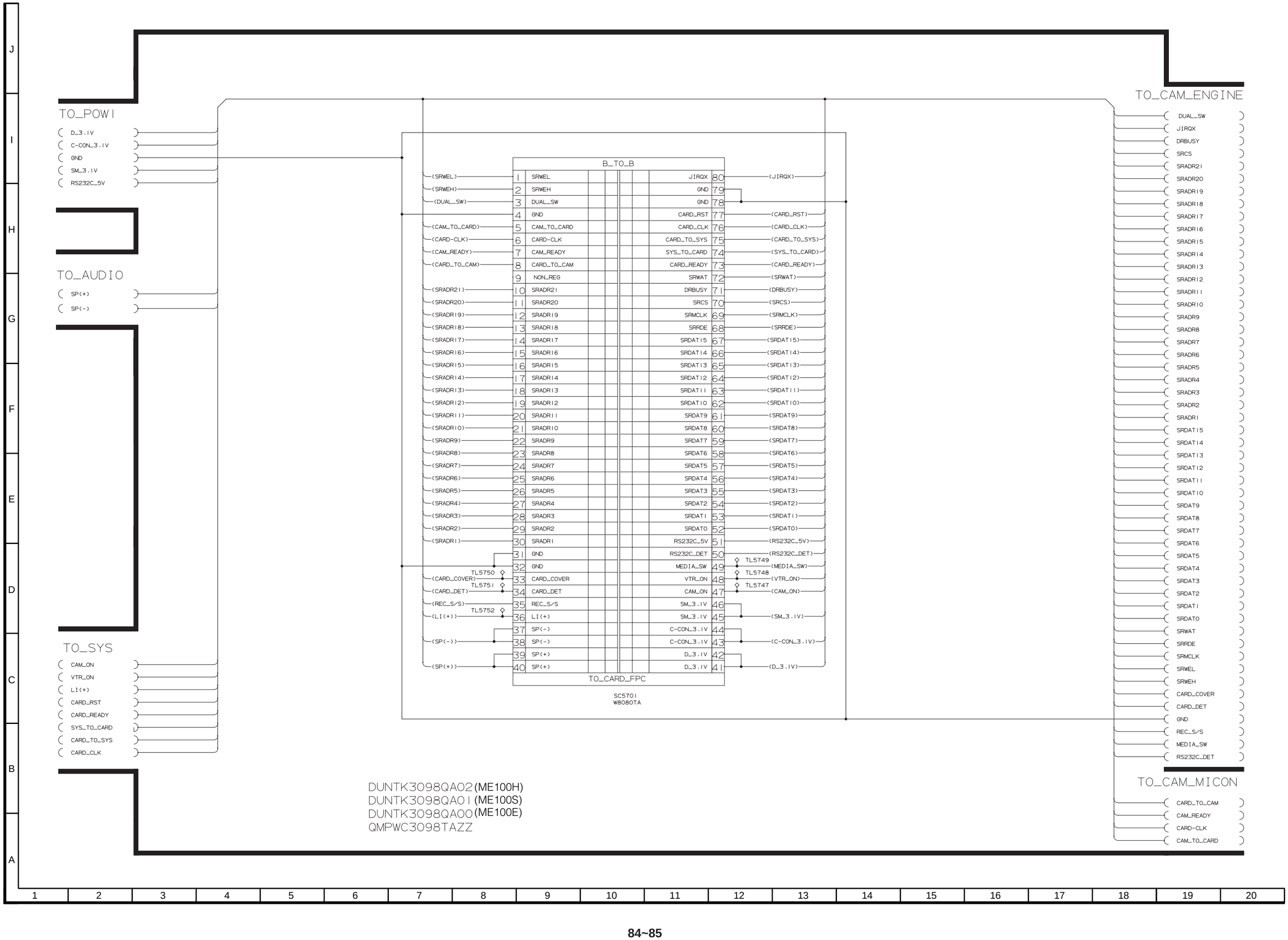
TO_AUDIO_I/O
AUX-L
FADE_CTL

TO_VF
VF_VCO_ADJ

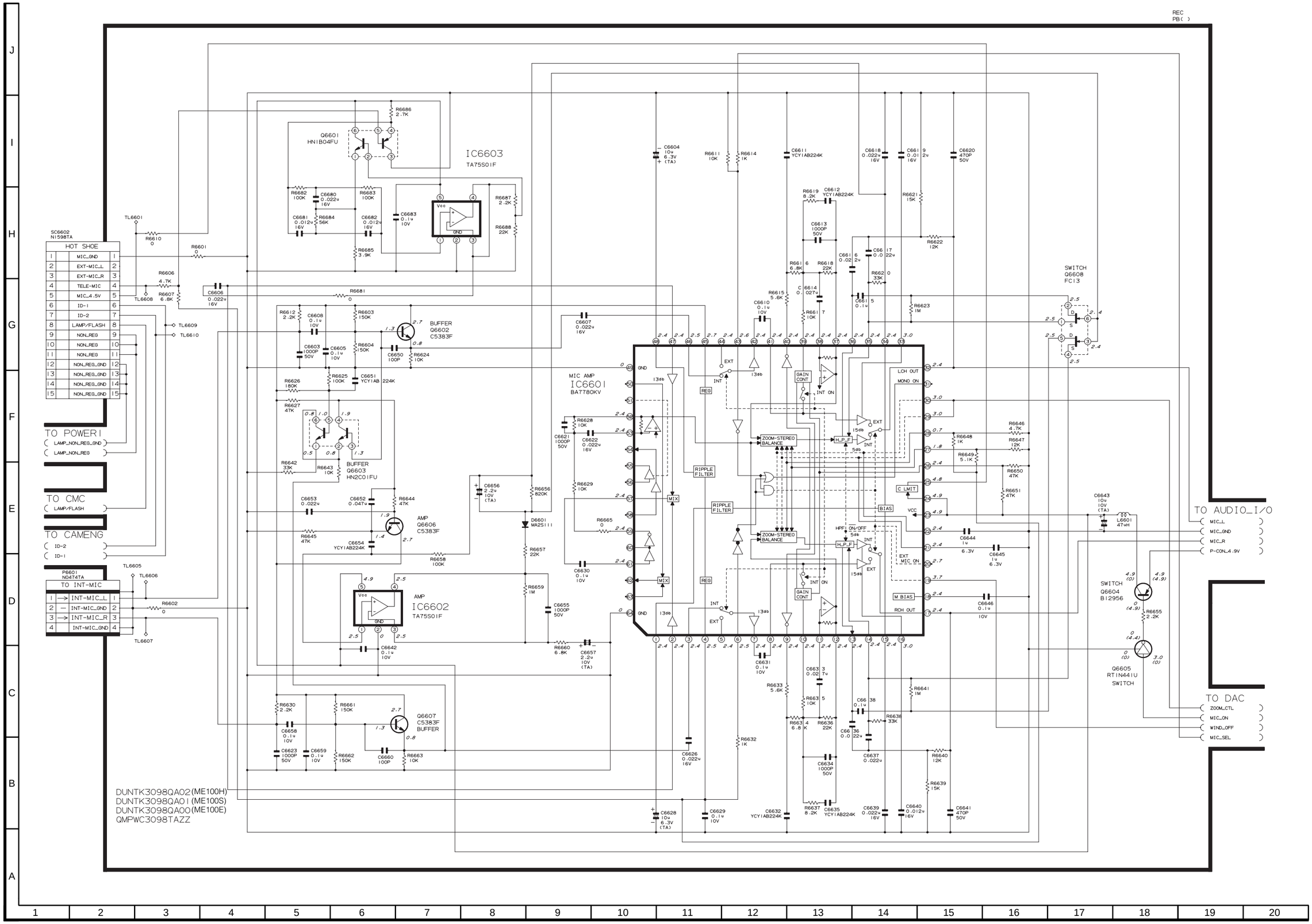
TO_MDRIV
DRUM_START

TO_POWER1
P-CON_4.9V
P-CON_3.1V
GND

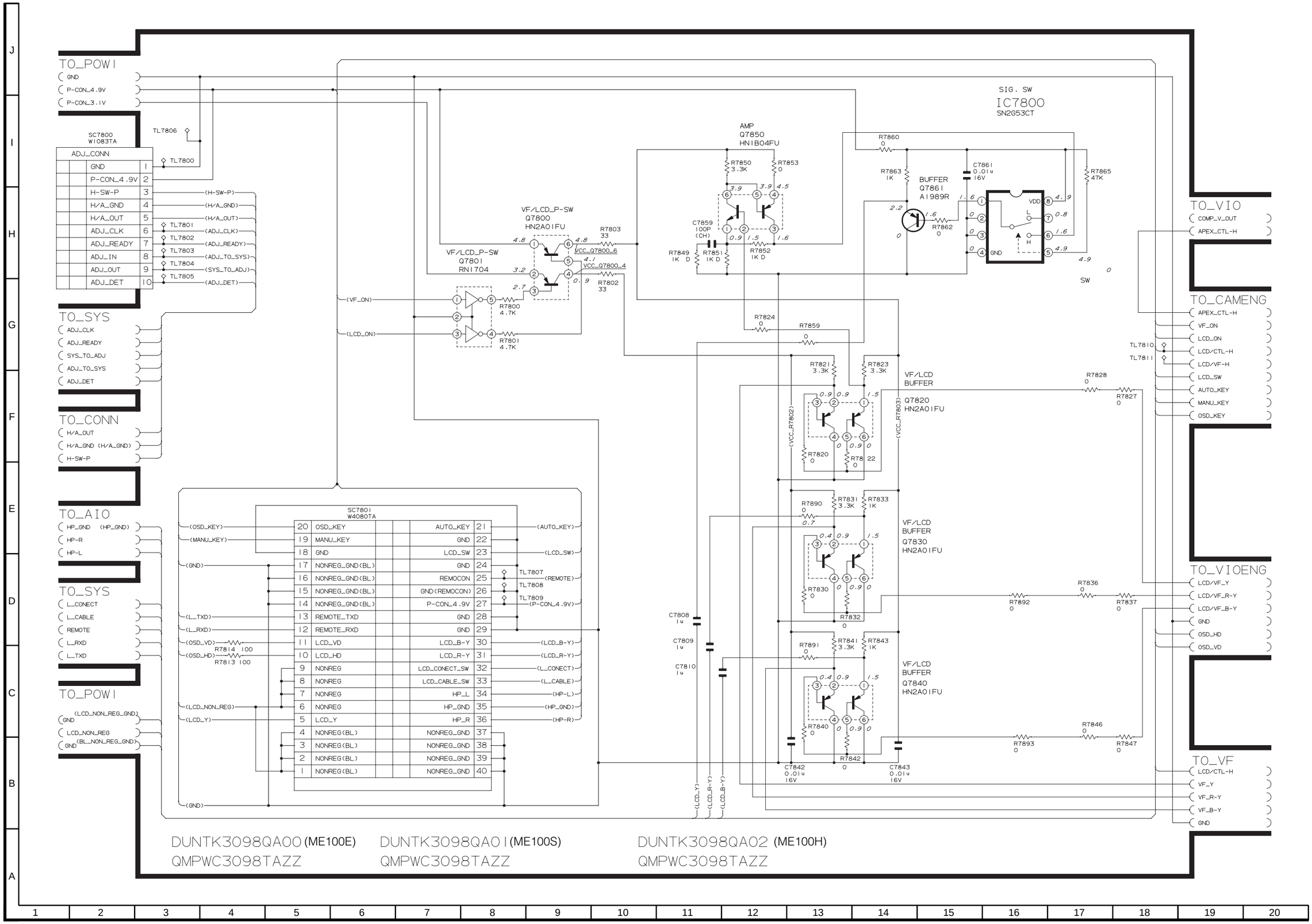
13-17. CARD CONN SCHEMATIC DIAGRAM



13-18. MIC AMP SCHEMATIC DIAGRAM



13-19. LCD CONN SCHEMATIC DIAGRAM

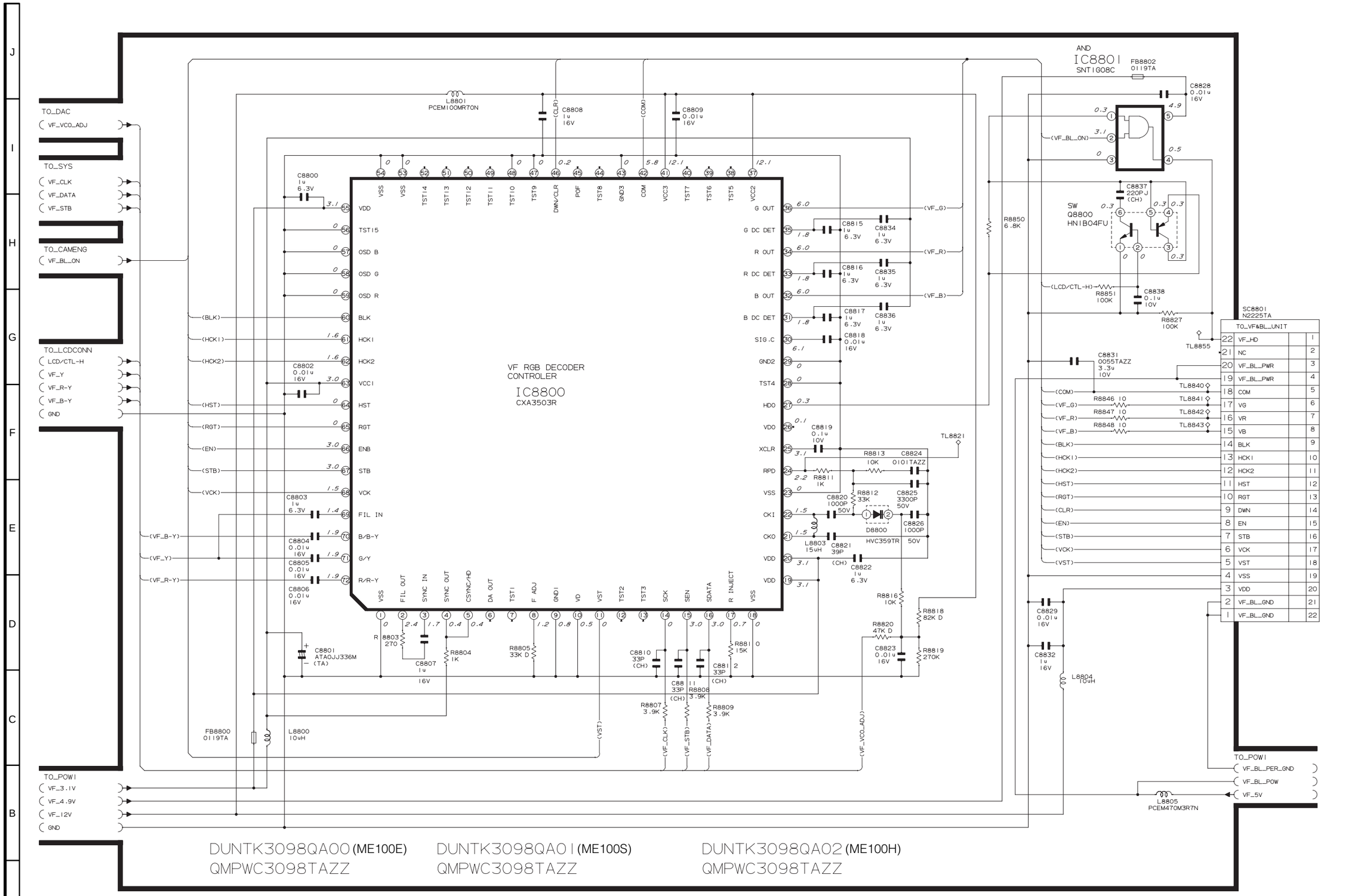


DUNTK3098QA00 (ME100E) QMPWC3098TAZZ

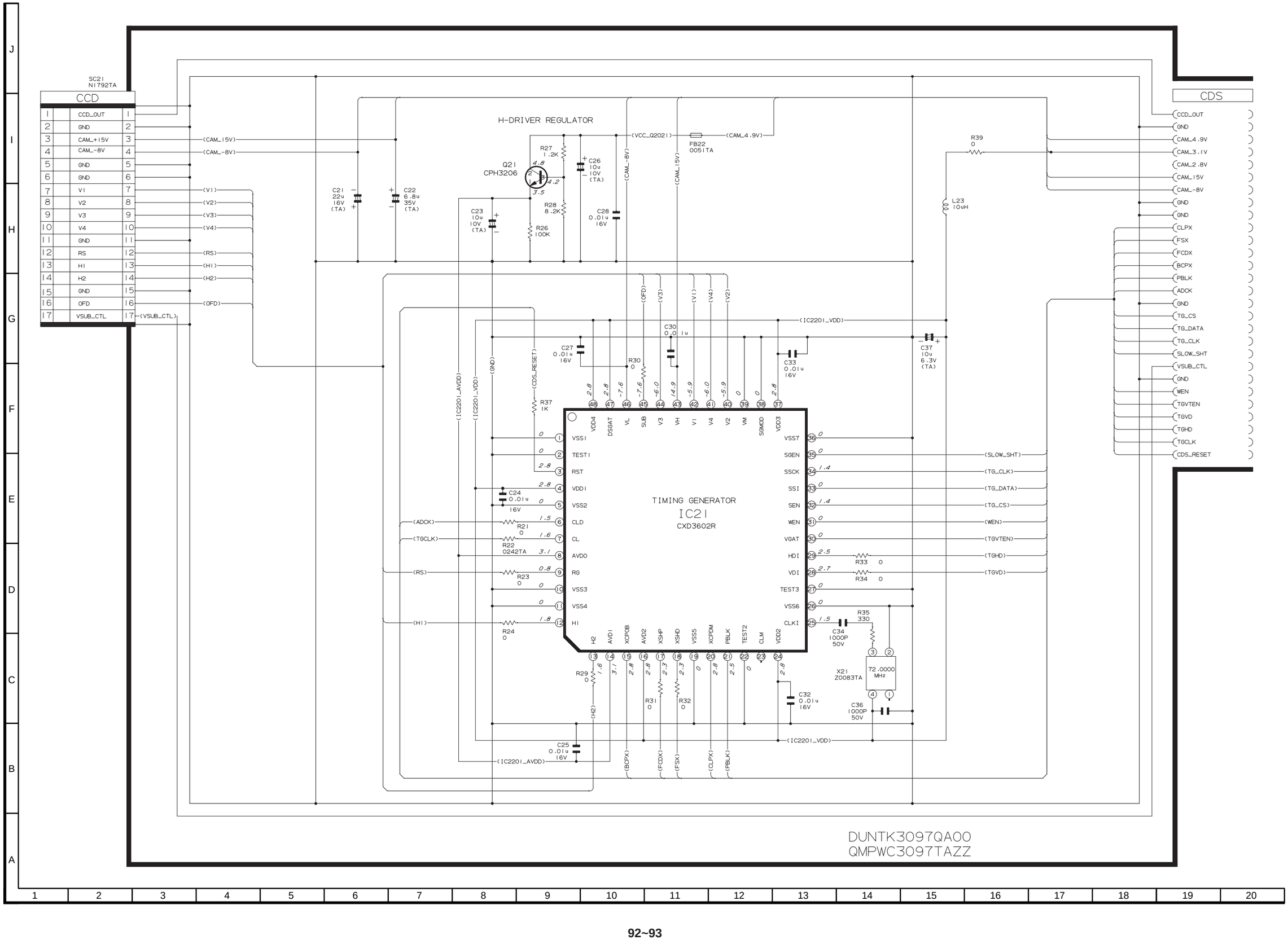
DUNTK3098QA01 (ME100S) QMPWC3098TAZZ

DUNTK3098QA02 (ME100H) QMPWC3098TAZZ

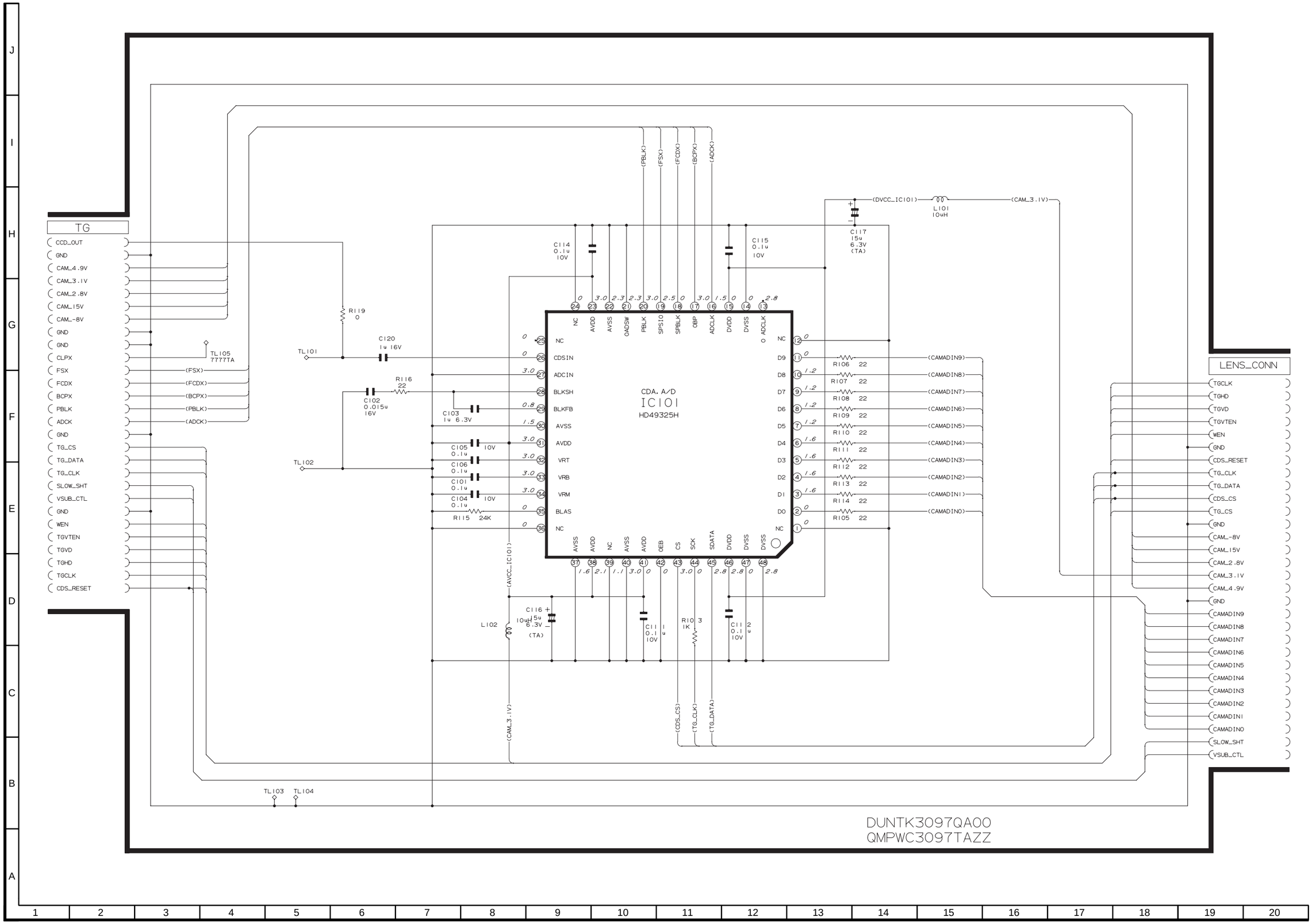
13-20. VF SCHEMATIC DIAGRAM



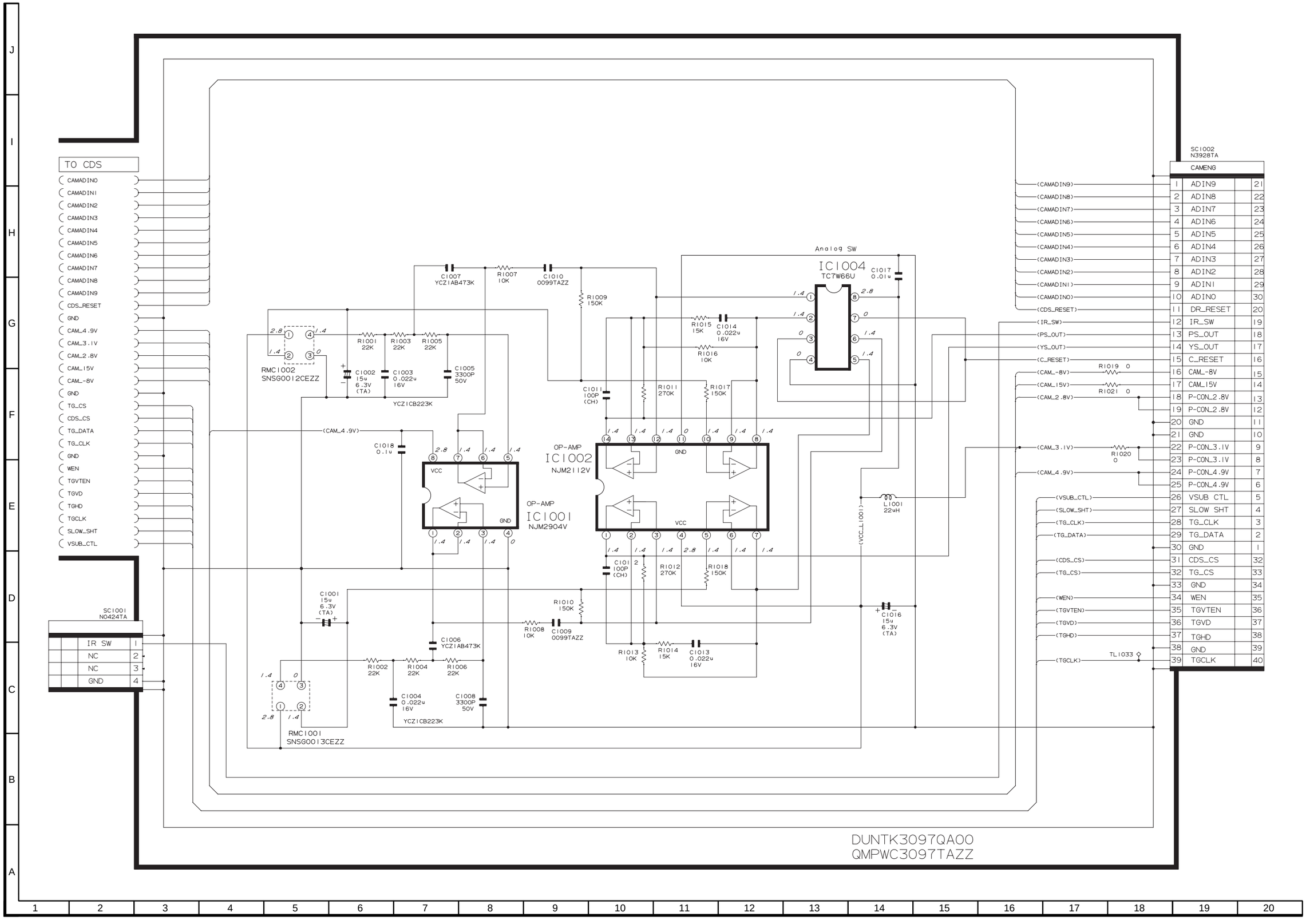
13-21. TG SCHEMATIC DIAGRAM



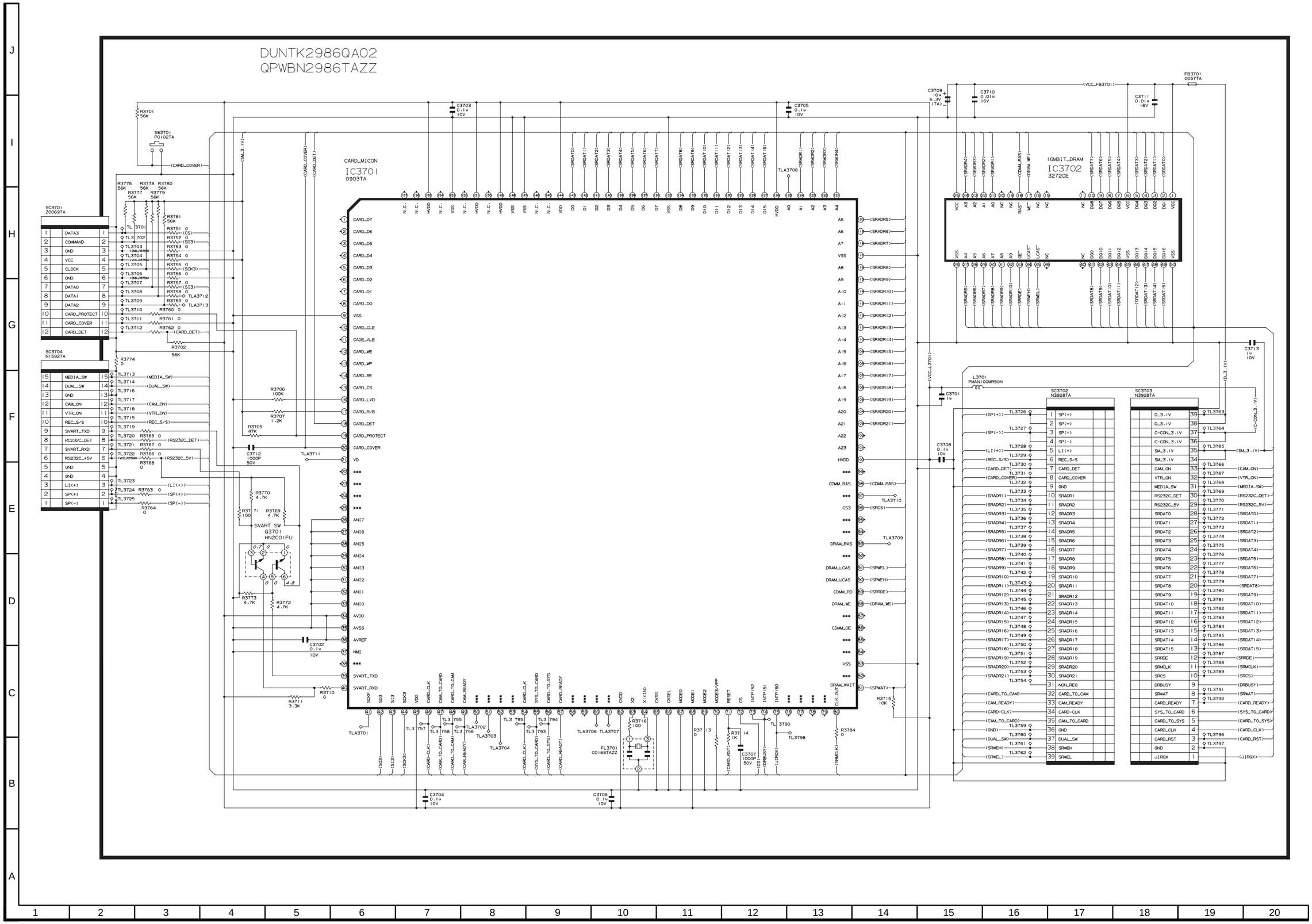
13-22. CDS SCHEMATIC DIAGRAM



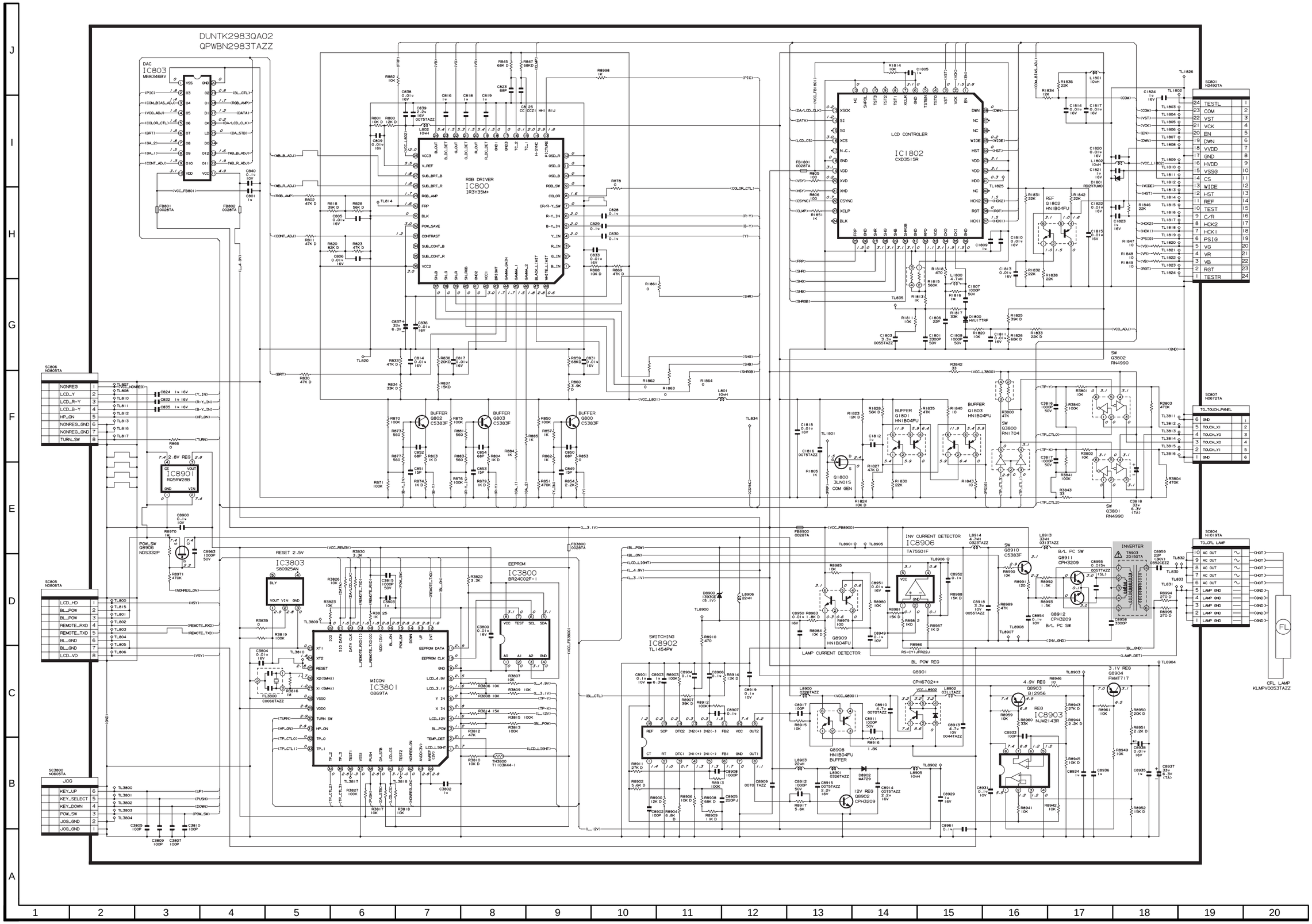
13-23. LCONN SCHEMATIC DIAGRAM



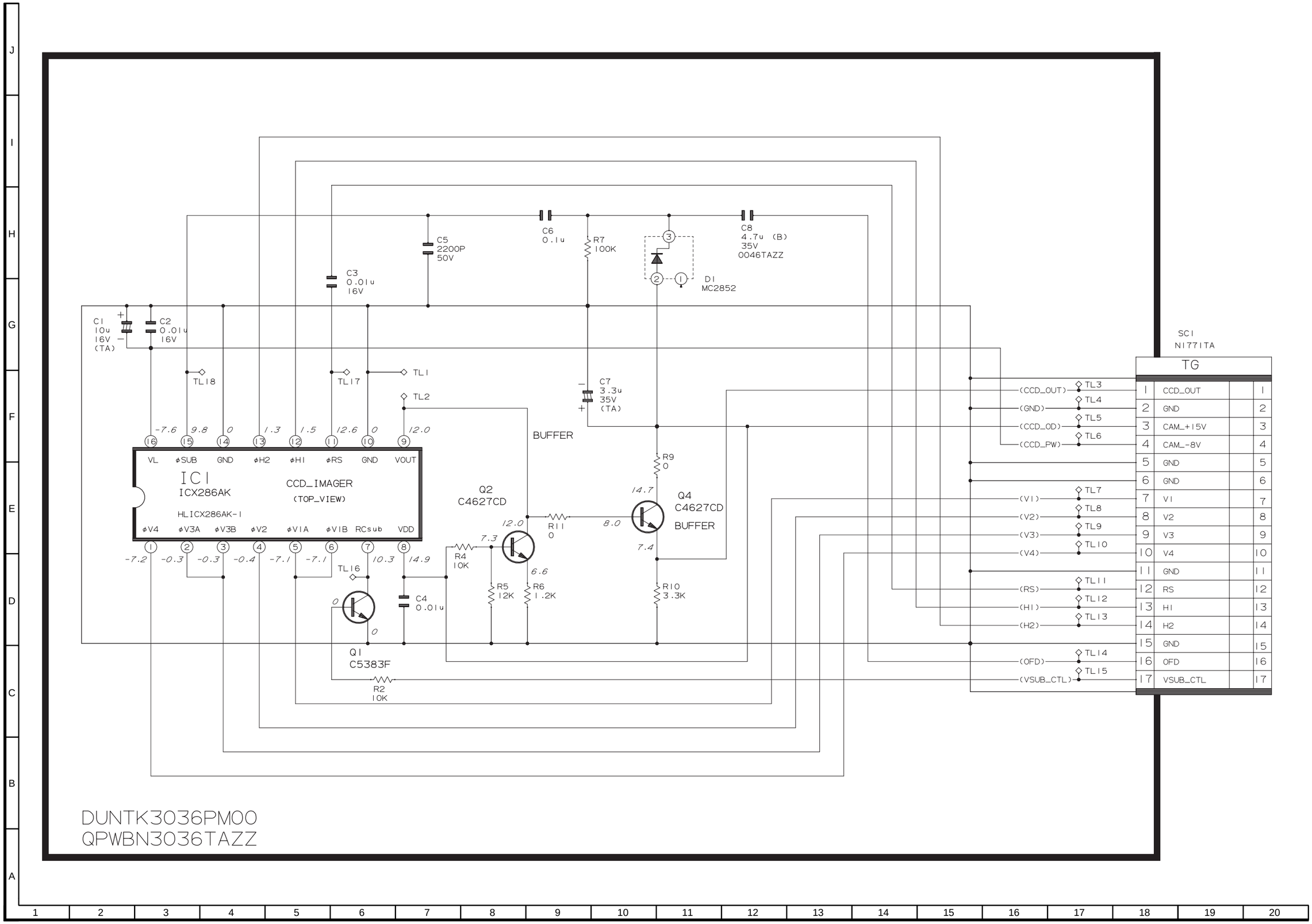
13-24. CARD MICON SCHEMATIC DIAGRAM



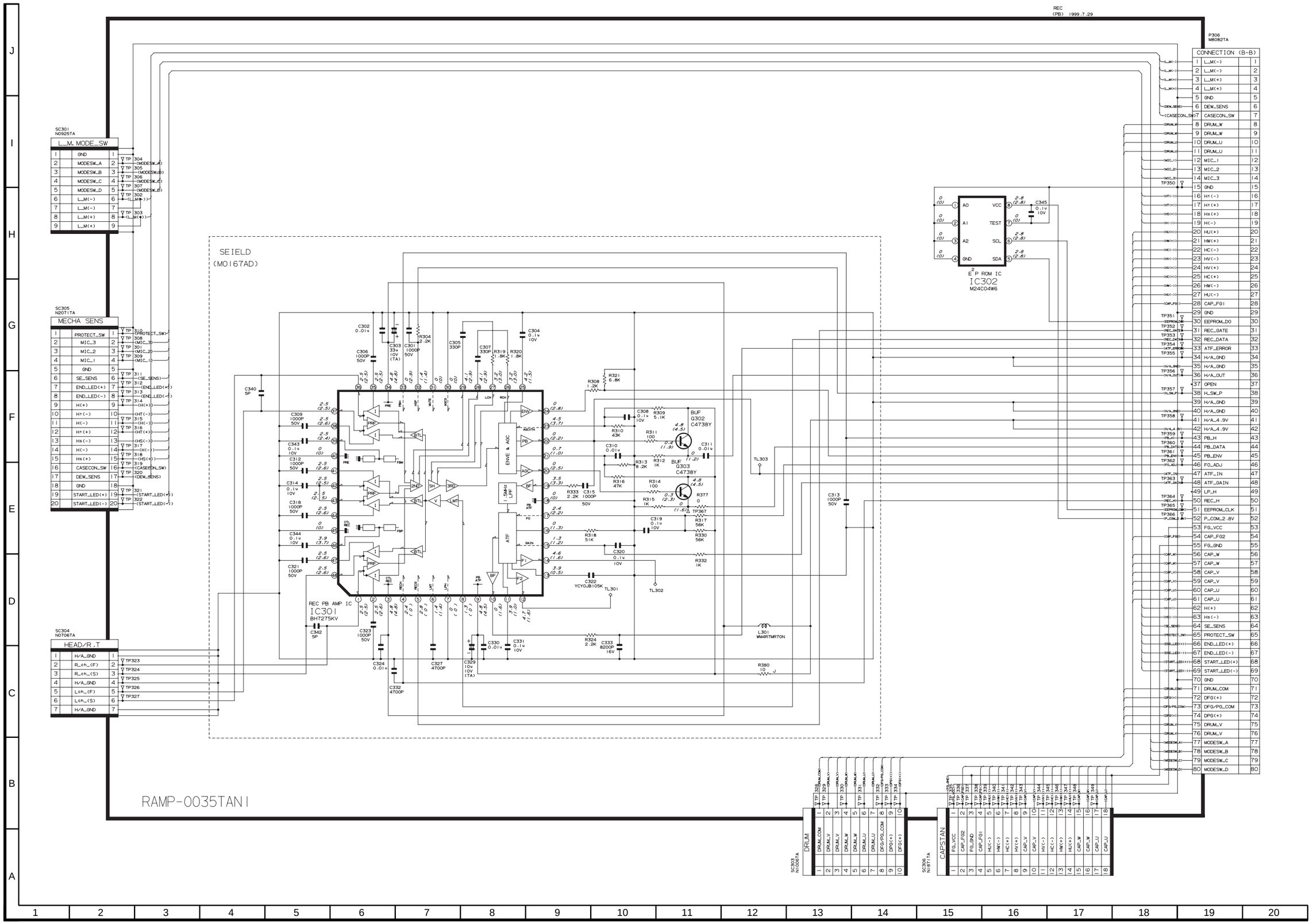
13-25. LCD SCHEMATIC DIAGRAM



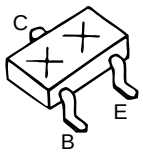
13-26. CCD SCHEMATIC DIAGRAM



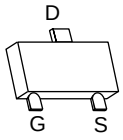
13-27. HEAD AMP SCHEMATIC DIAGRAM



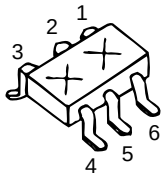
14. SEMICONDUCTOR LEAD IDENTIFICATION



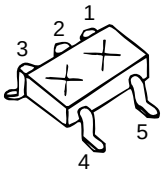
2SA1989R
2SB12956
2SC4738Y
FMMT717
2SC5383F
2SA1588Y
RT1N441U
2SC4627CD
UN9214
CPH3209
CPH3109
RT1P441U
CPH3206



NDS355AN



HN2A01FU
HN1B04FU
HN2C01FU
RN4990
XP05534
RN1907
FC117
TK11813M
RN4984
RN4982
HN1CO1FU



S81230SG
RN1704
580925AN
2SC4944Y
NJU7012F
PST597KN
TC7SL04U
NJM2107F
TA75S01F
TC7S08U
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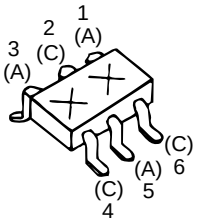
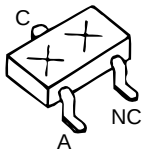
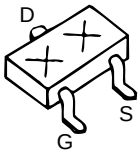
TCSZ04U
TC7S02U
NJU7012F



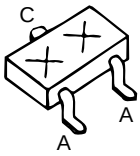
BAV756S



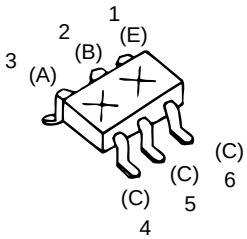
MC2852



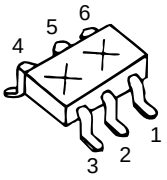
NDS332P



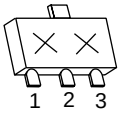
MA132WK



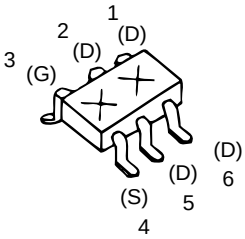
CPH6702



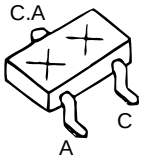
XN043991
XN4404



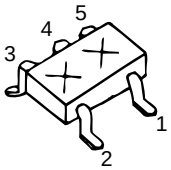
RH5RE58A



FDC642P



DA221



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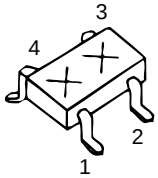
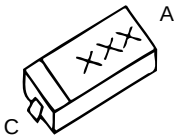
FMG12
SNT1G08C

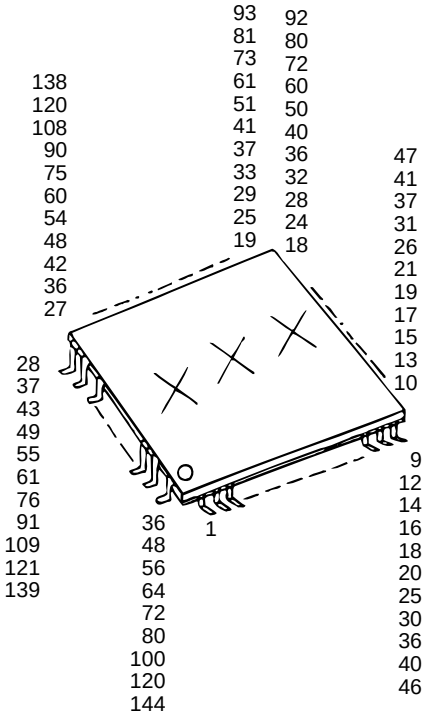


PST592KM



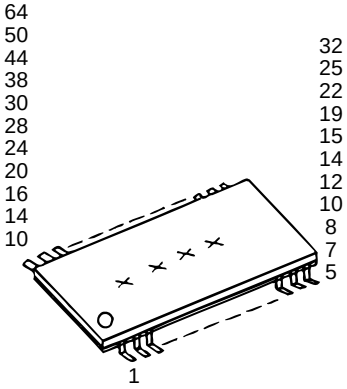
MA729
MA2S111
HVU350B
HVU359TR
MI1A3

RD2R7UM0
HVU17TRF
EX1394CE
HVC359TR



ADS933Y
IX0818TA
IX0819TA
BH7277KV
BH7275KV
MB3881
BA7761KV
LR38610
IR3Y29AM

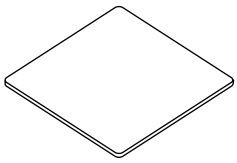
LZ9GH23
CXA3503R
MB88344F
UPC2391G
LB11990W
MM1449XQ
BBH7761KV
IX0748TA



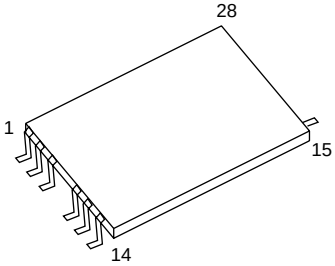
CXA2096N
MS548331
LV4051AT
LA7473V
M40C558V
T7A164S
UPD16510
NJM2538B

NJM2904V
NJM2902V
NJM3414V
MB8346BV
IX0804
LV4051AT
LV04AT
TL1454PW

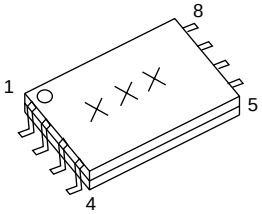
ADC08351
PCM3006T



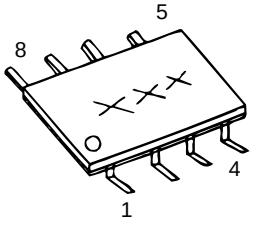
IX0707TA
IX0802TA
IX0809TA
IX0785TA



IX0560TA



NJM2535V
S84235F
MM1116FS
TC4W53U
NJM4565V
SN2G53CT

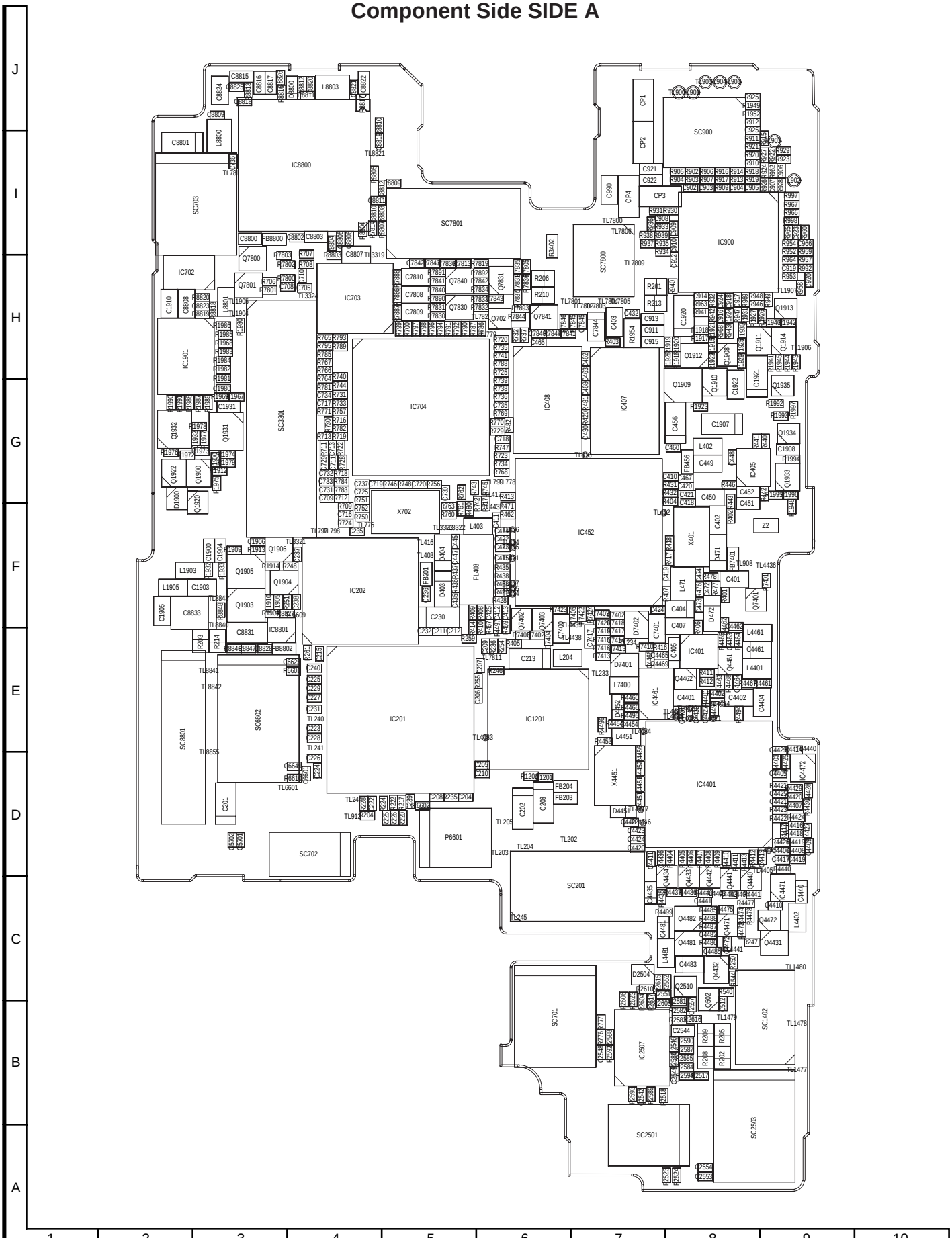


S84235F
TA75W558
TC4W66U
TC7W14U
TC7W74U
TC7W04U
NJM2143R
TLC2940

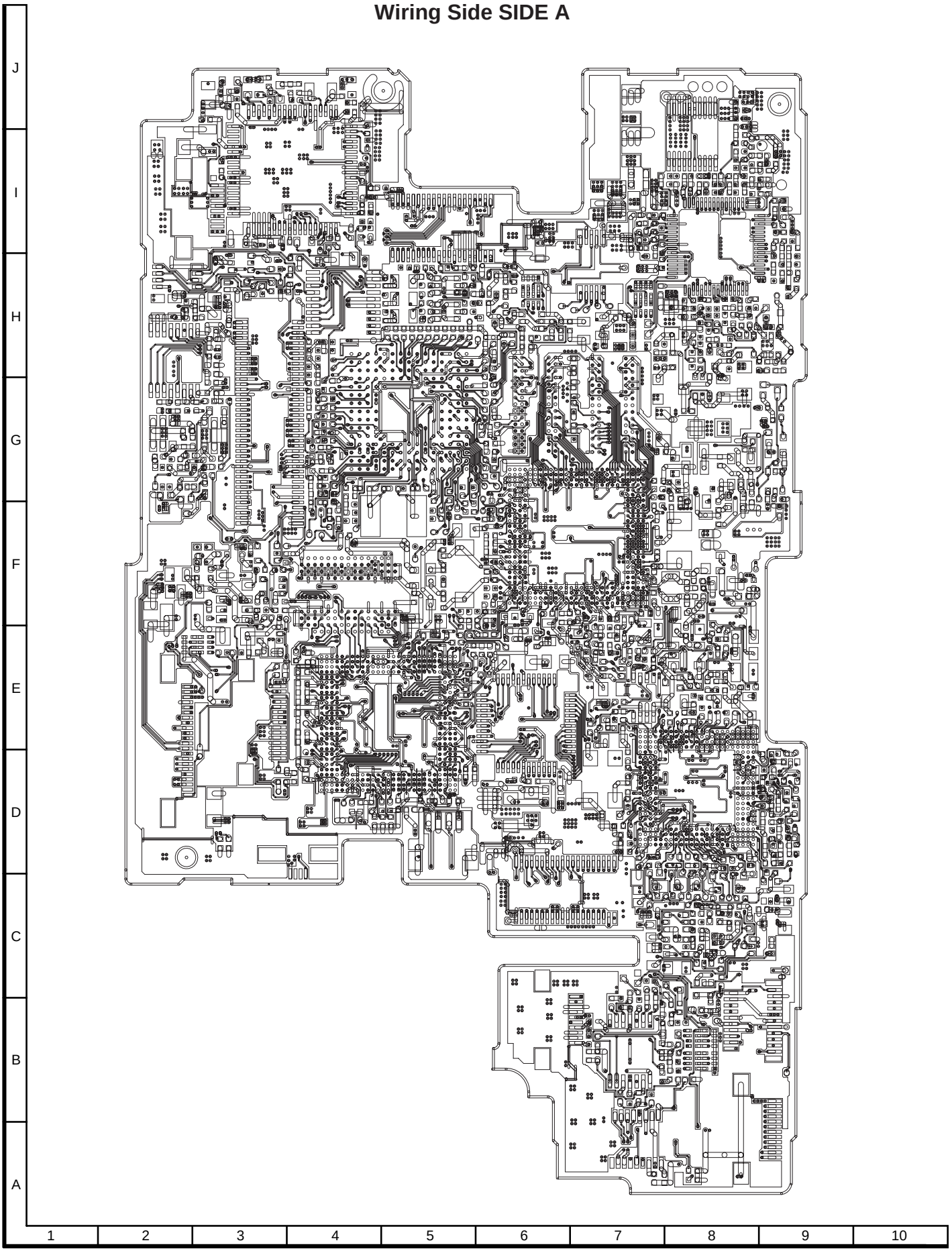
TC7W74U
TC7W08U
TC7WH74U
TC7W66U
M24C16W6
M24C04W6
M24C02W6

15. PRINTED WIRING BOARD ASSEMBLIES MAIN PWB

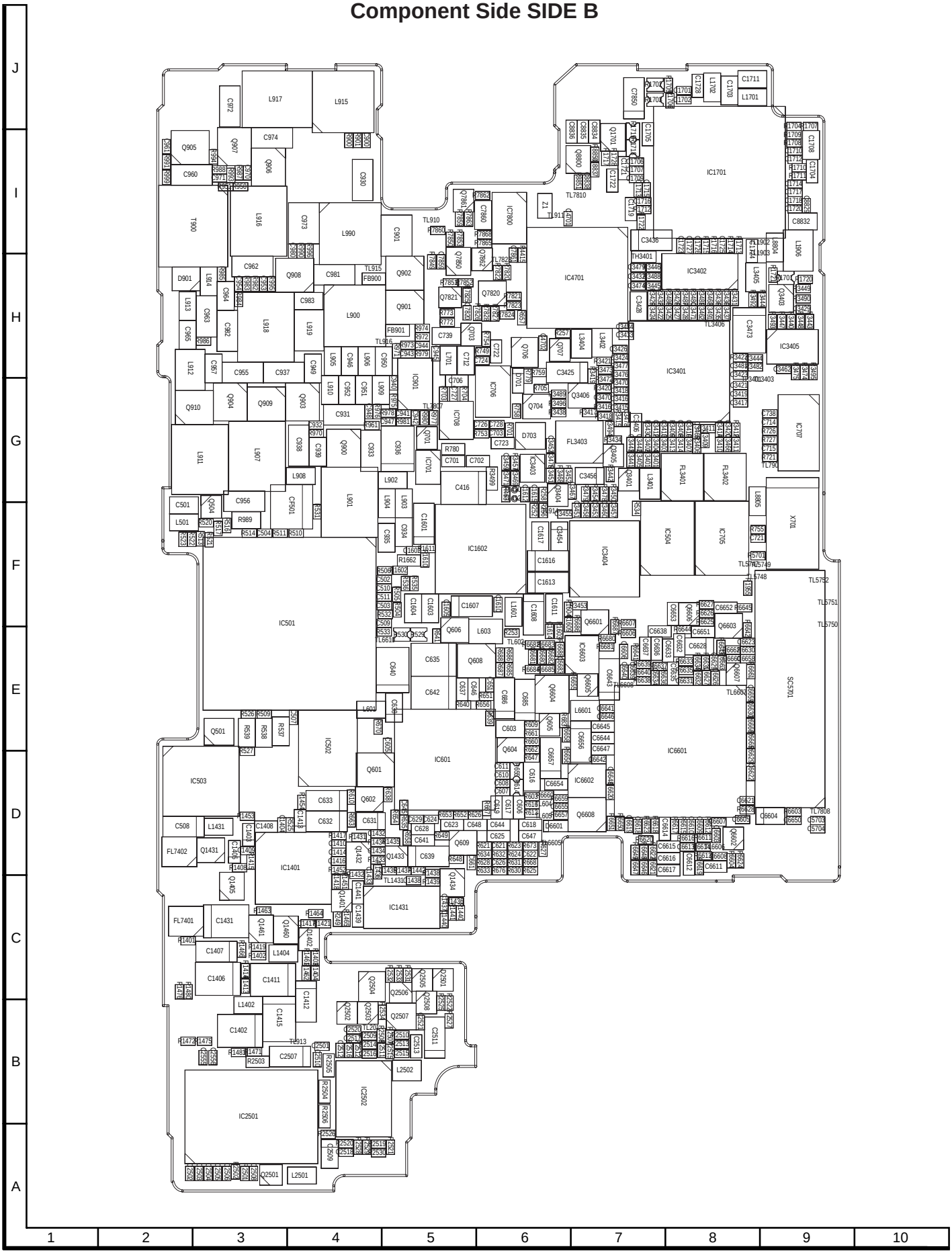
Component Side SIDE A



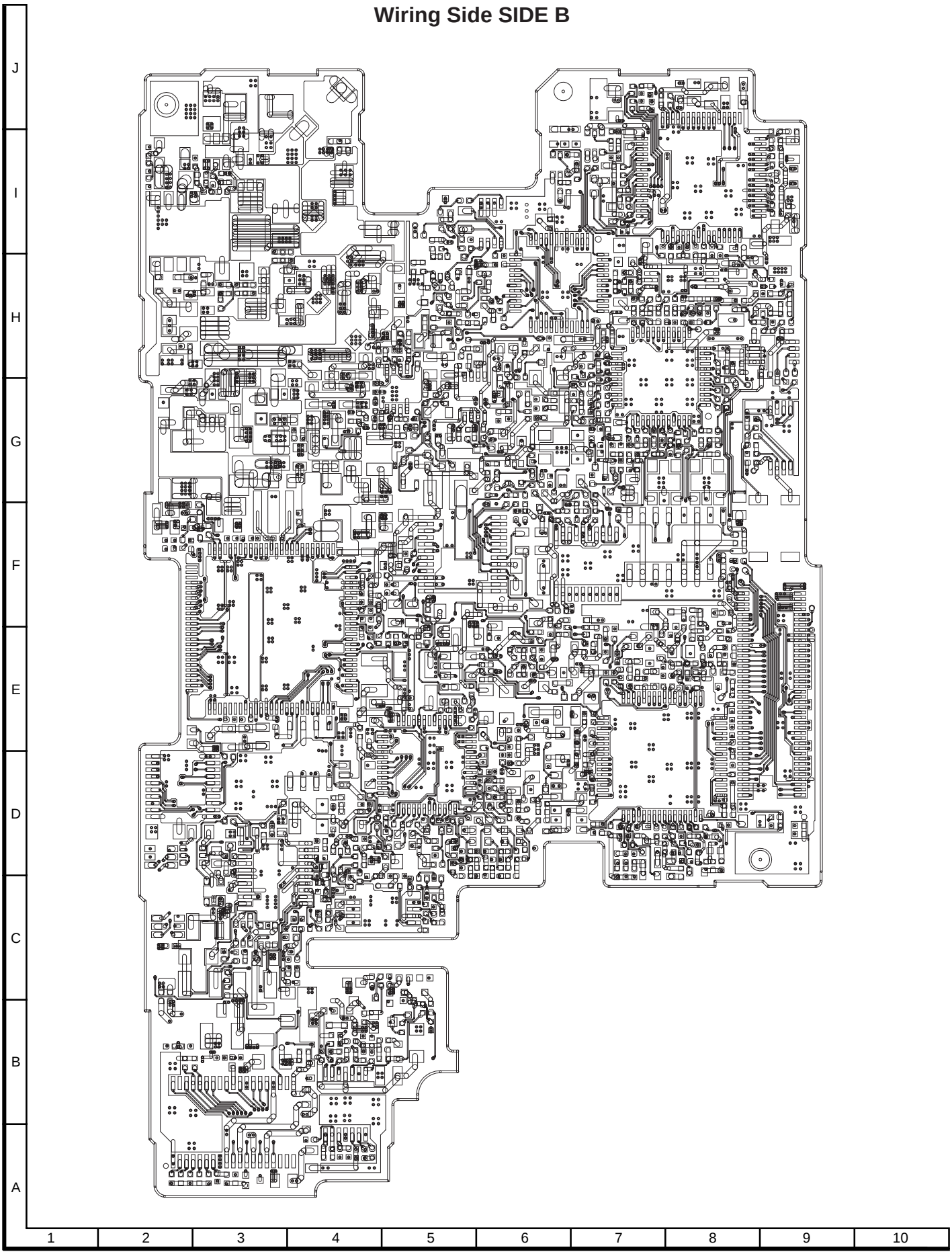
Wiring Side SIDE A



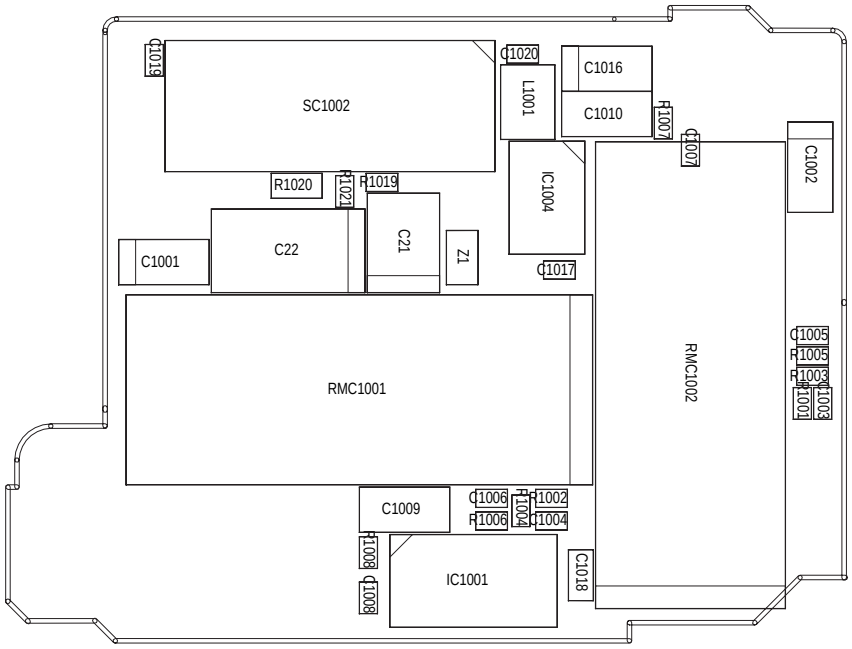
Component Side SIDE B



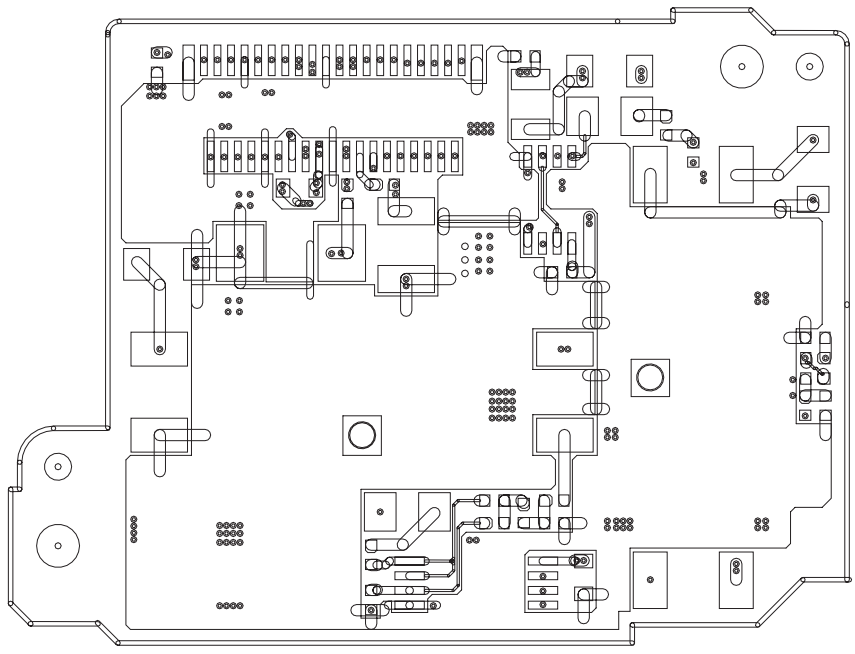
Wiring Side SIDE B



Component Side SIDE B

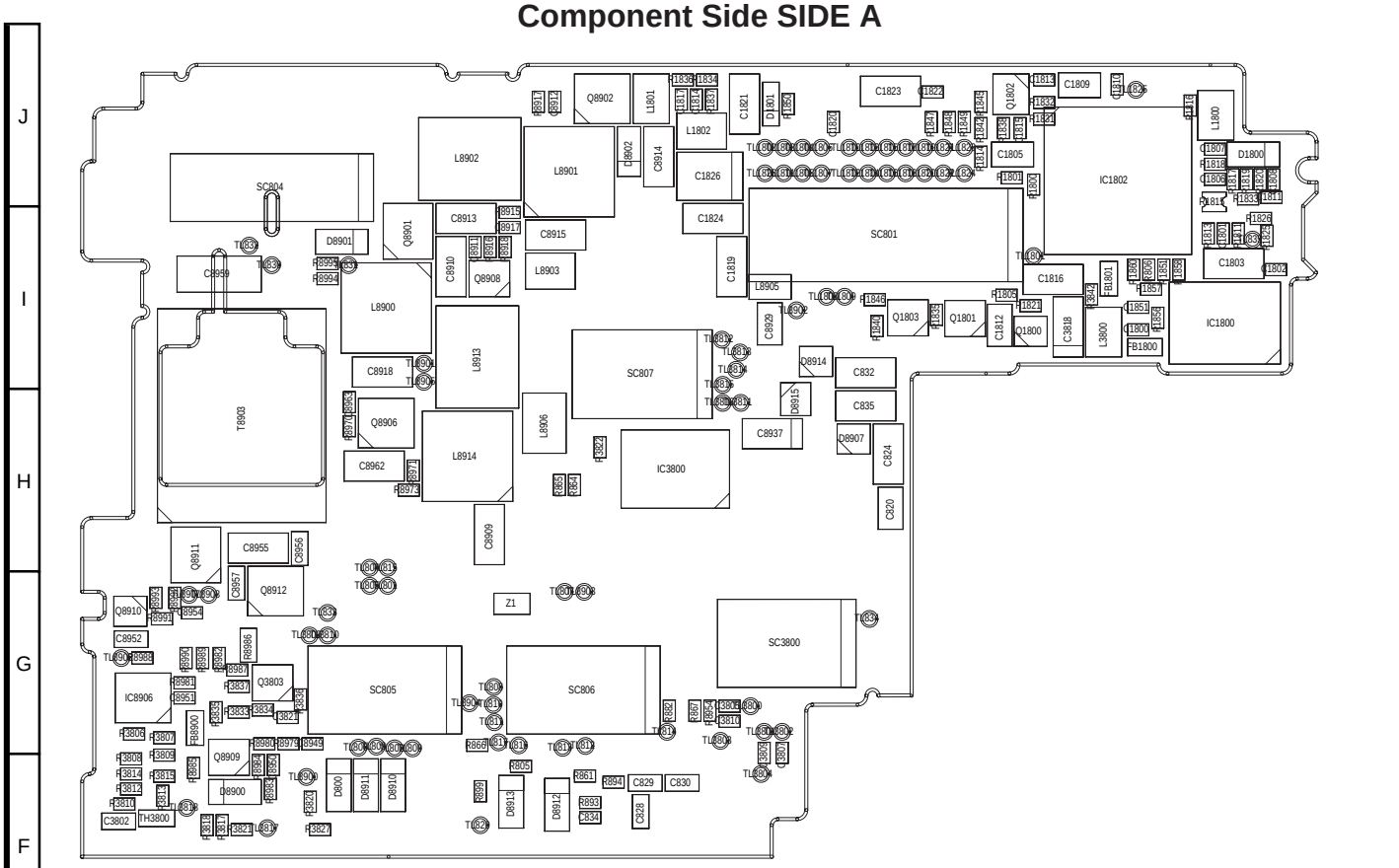


Wiring Side SIDE B

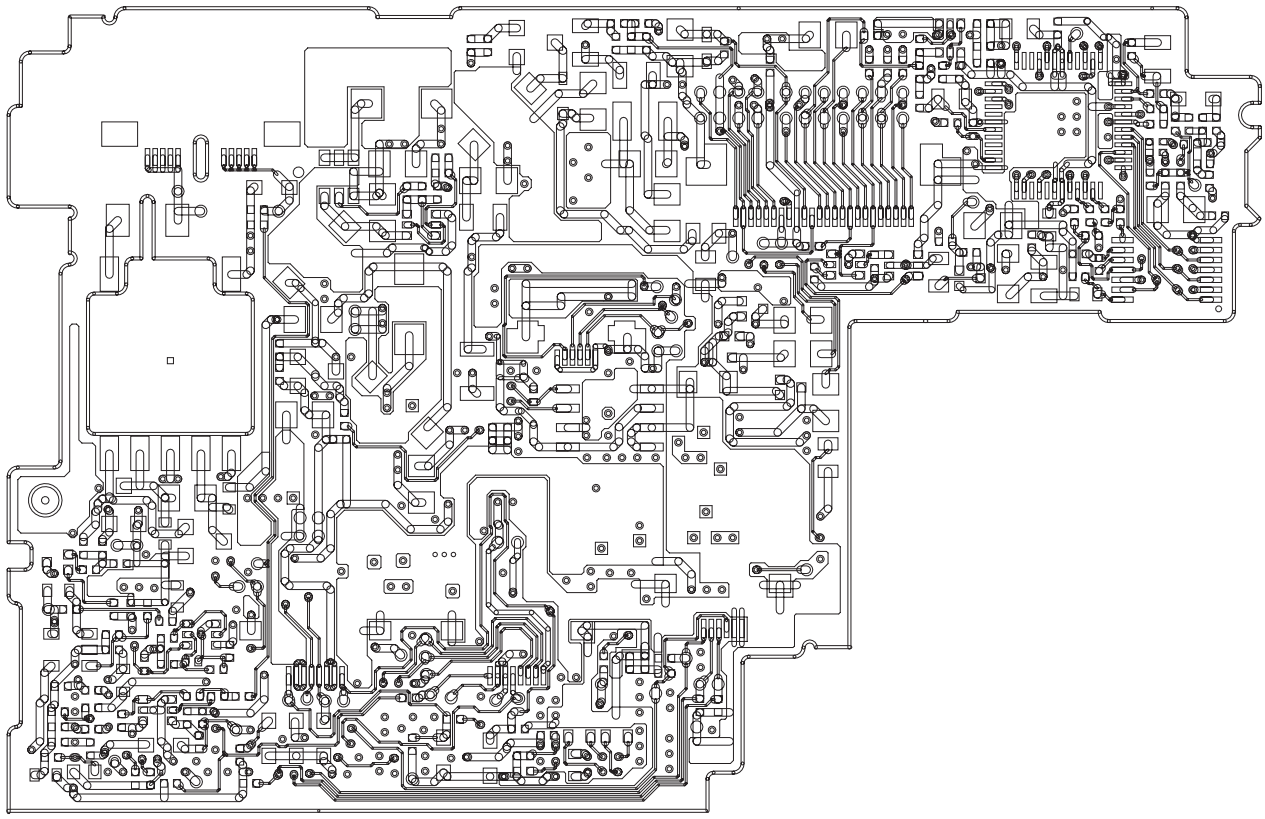


LCD PWB

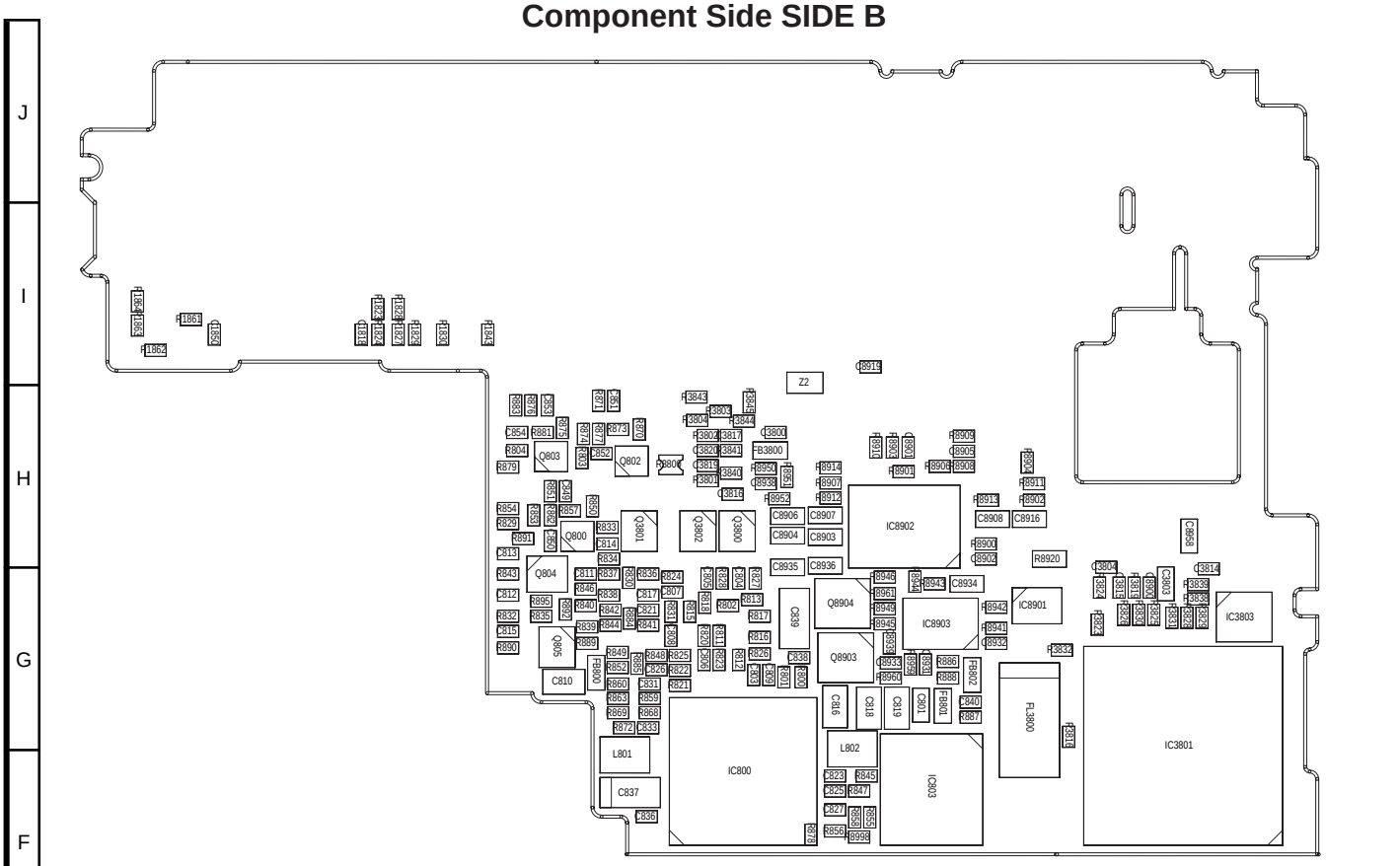
Component Side SIDE A



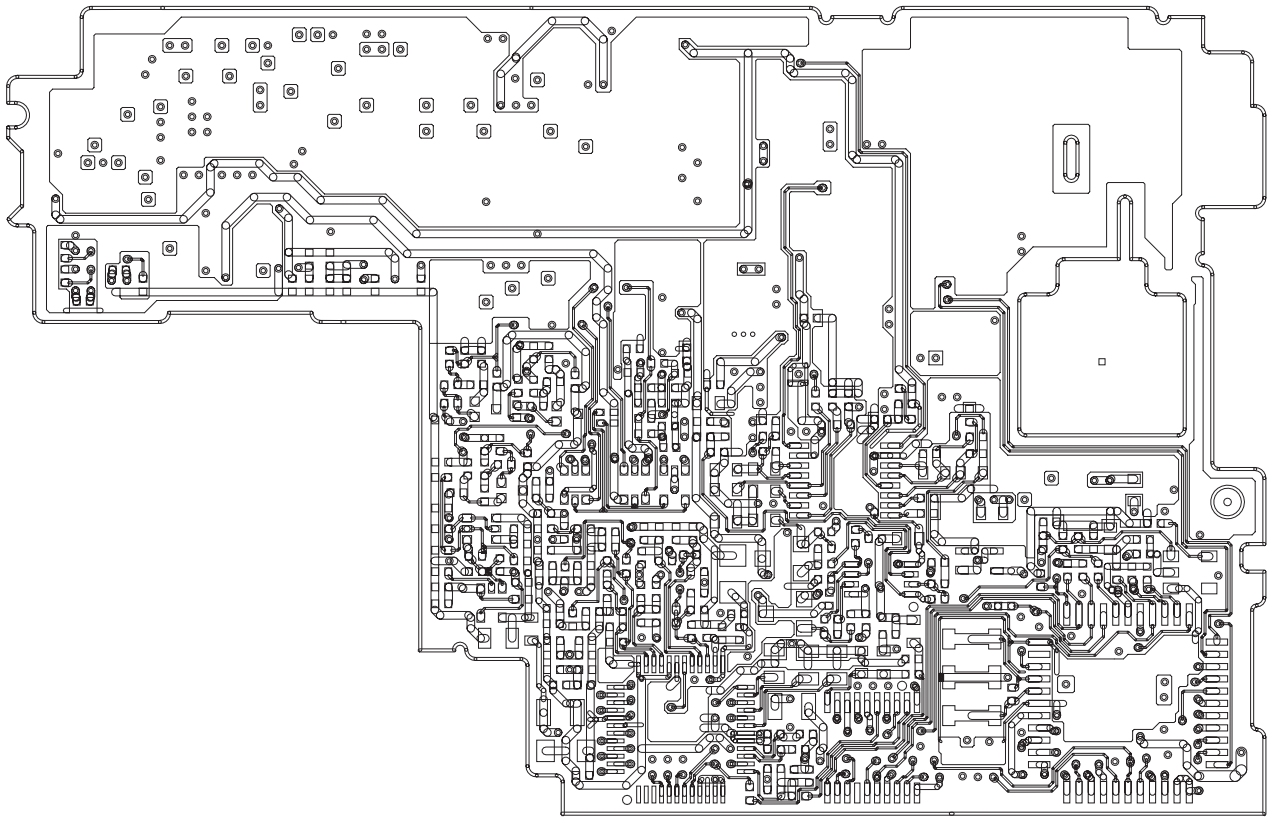
Wiring Side SIDE A



Component Side SIDE B

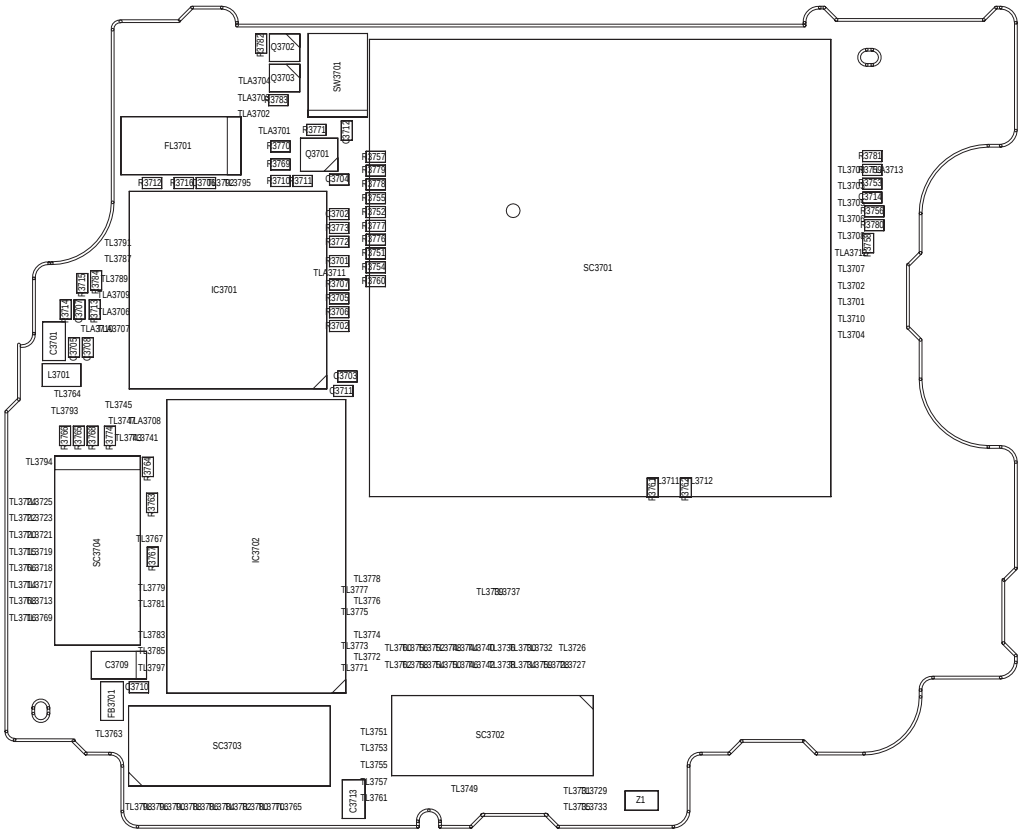


Wiring Side SIDE B

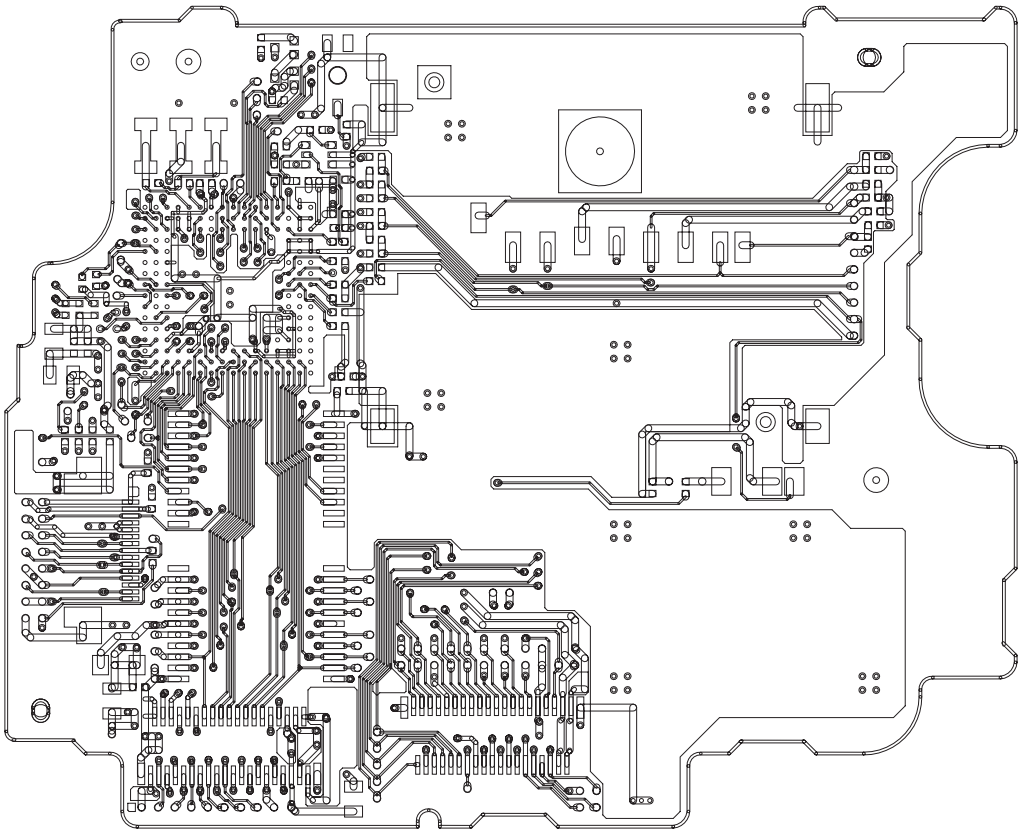


CARD PWB

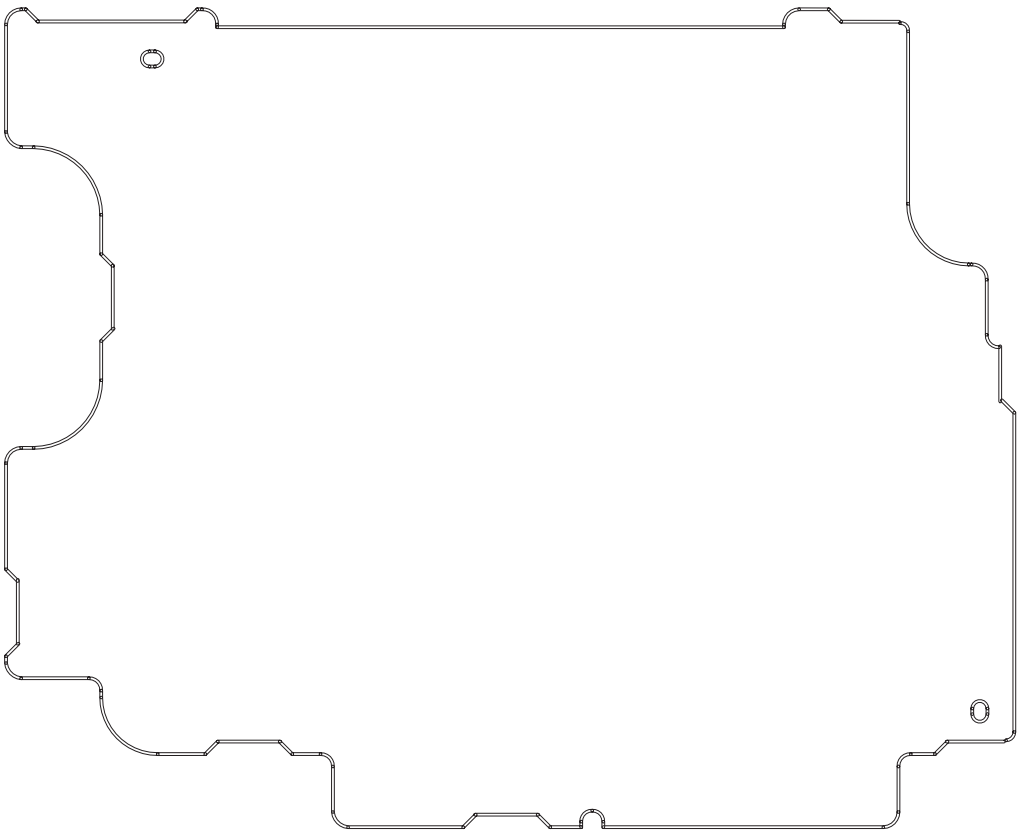
Component Side SIDE A



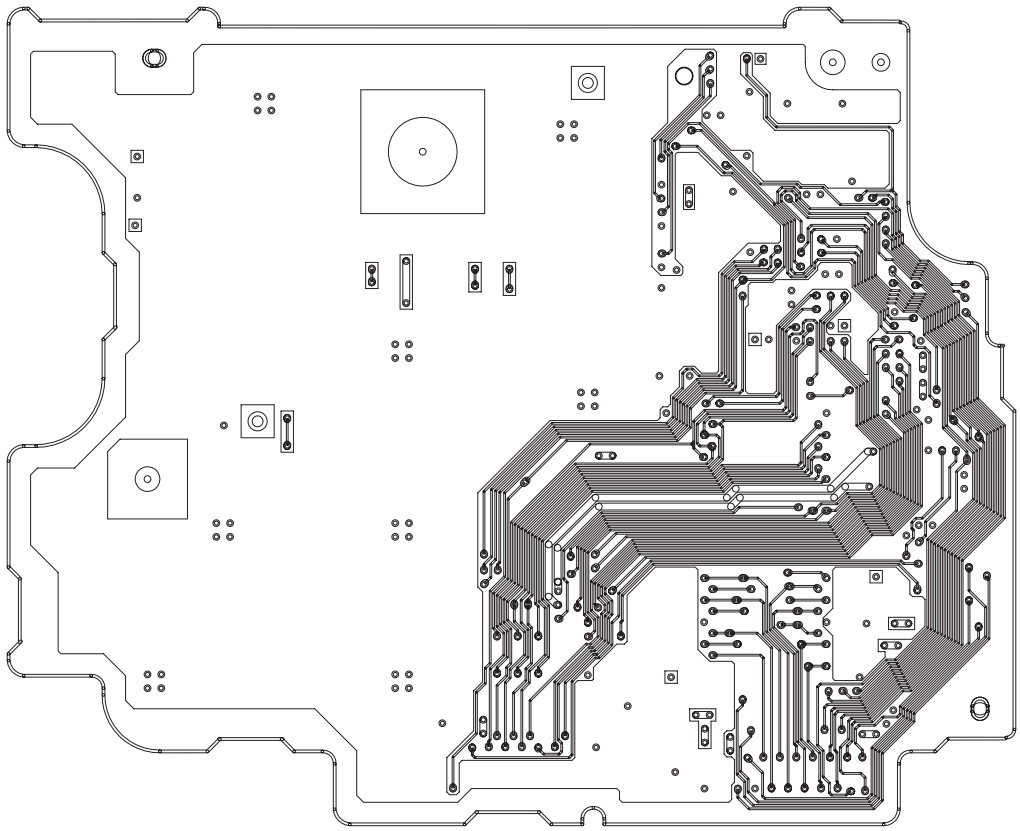
Wiring Side SIDE A



Component Side SIDE B



Wiring Side SIDE B

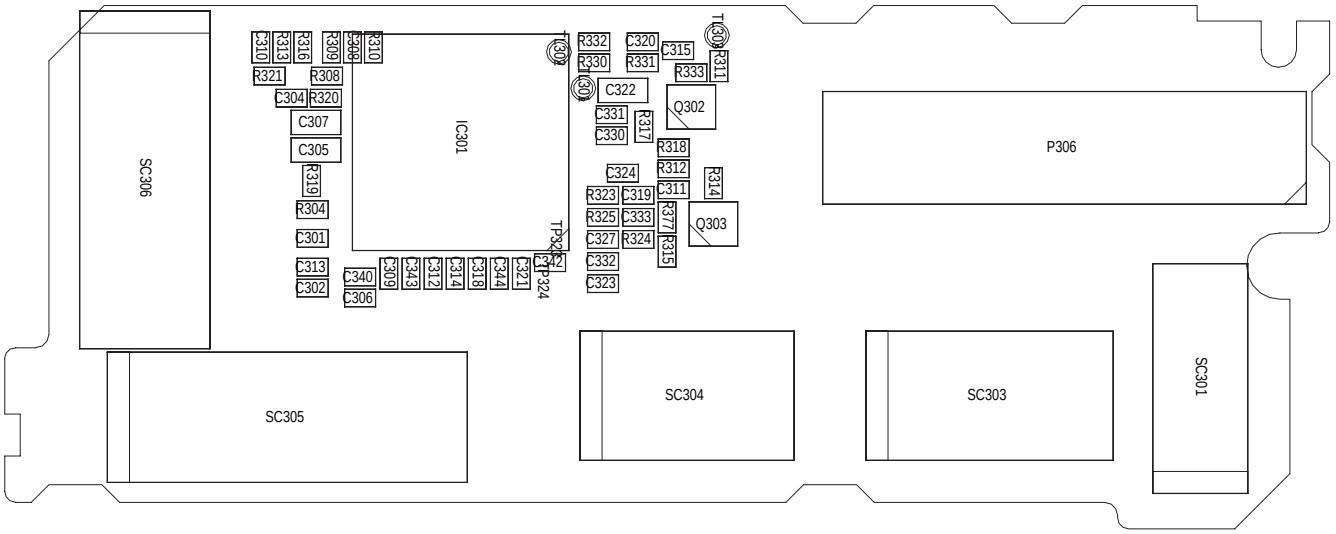


J I H G F E D C B A

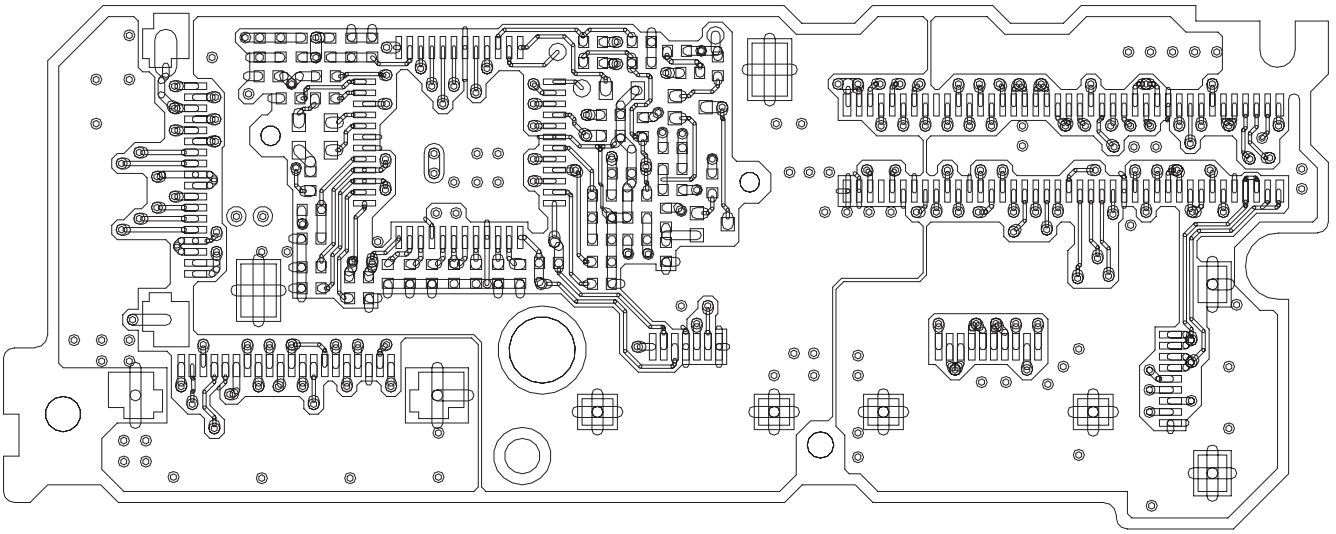
1 2 3 4 5 6 7 8 9 10

HEAD AMP PWB

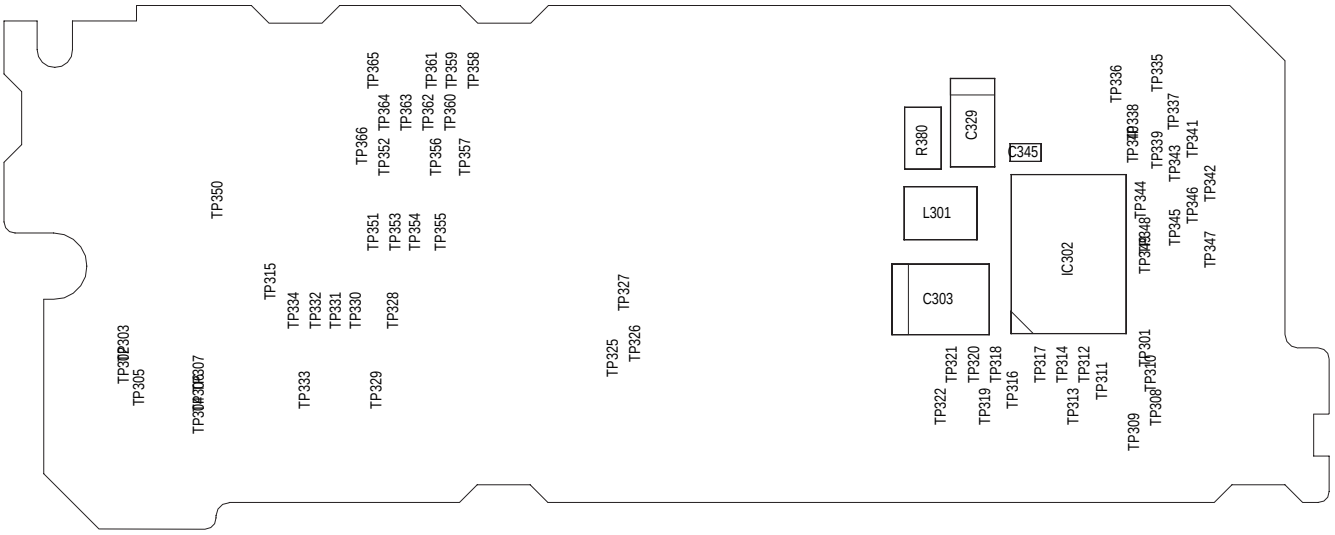
Component Side SIDE A



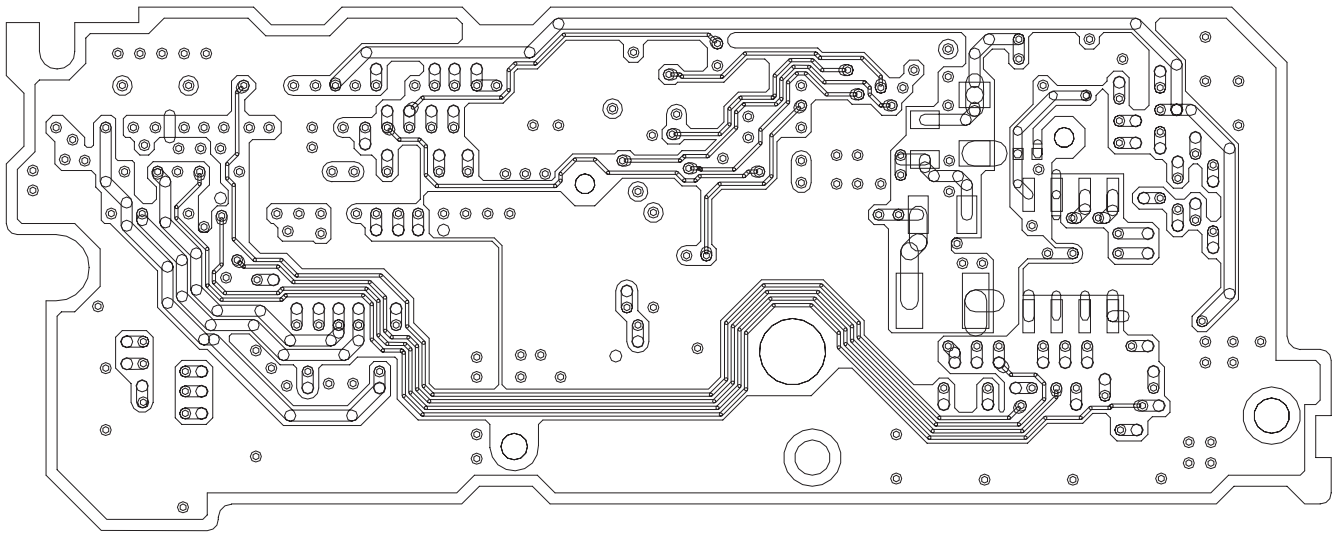
Wiring Side SIDE A



Component Side SIDE B

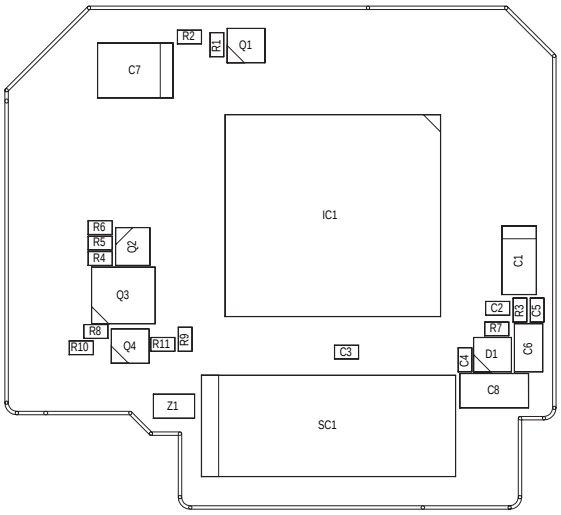


Wiring Side SIDE B

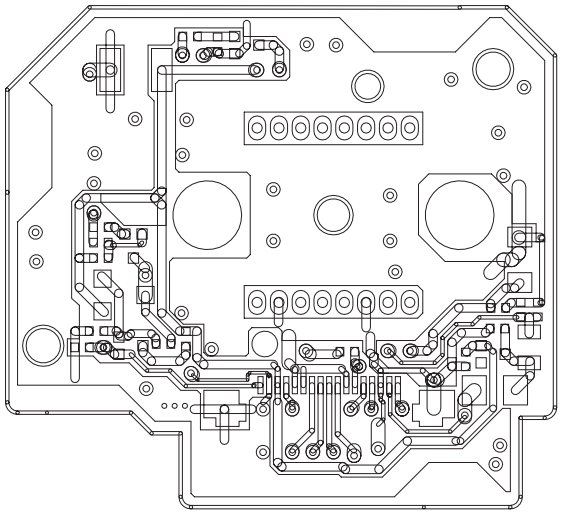


CCD PWB

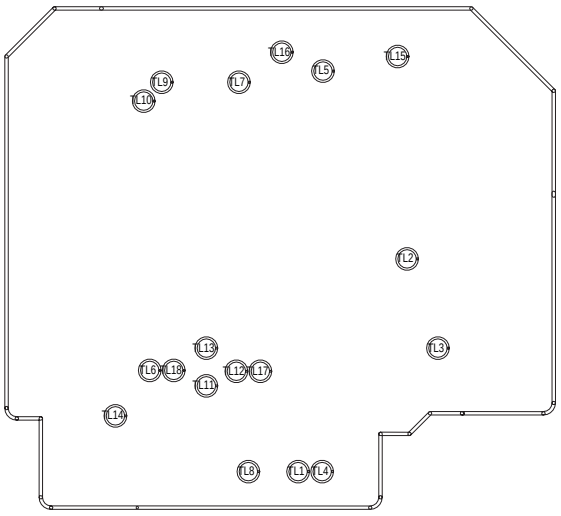
Component Side SIDE A



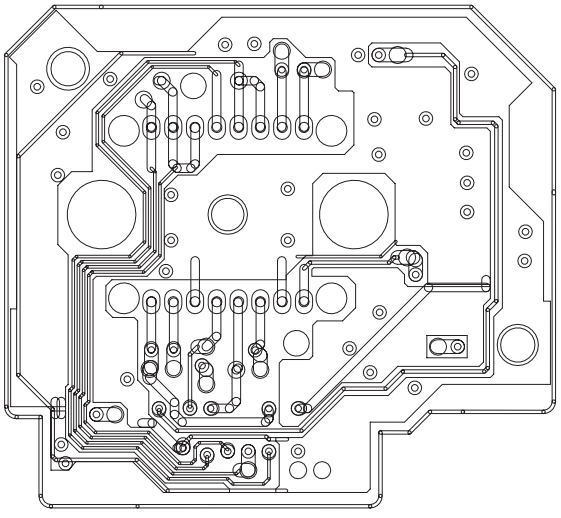
Wiring Side SIDE A



Component Side SIDE B



Wiring Side SIDE B



J									
I									
H									
G									
F									
E									
D									
C									
B									
A									
	1	2	3	4	5	6	7	8	9	10

16. REPLACEMENT PARTS LIST/ EXPLODED VIEWS

ELECTRICAL PARTS LIST

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

" HOW TO ORDER REPLACEMENT PARTS"

★MARK : SPARE PARTS-DELIVERY SECTION:ALL JAPAN

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER **2. REF. NO.**
3. PART NO. **4. DESCRIPTION**
5. PRICE CODE

⚠ MARK: SAFETY RELATED PARTS

PWB ASSEMBLY IS NOT REPLACEMENT ITEM

Ref. No.	Part No.	★	Description	Code

PRINTED WIRING BOARD ASSEMBLIES *(NOT REPLACEMENT ITEM)*

	DUNTK3098QA00	MAIN PWB Unit (VL-ME100E)	—
	DUNTK3098QA01	MAIN PWB Unit (VL-ME100S)	—
	DUNTK3098QA02	MAIN PWB Unit (VL-ME100H)	—
	DUNTK3097QA00	CAMERA HEAD PWB Unit	—
	DUNTK2986QA02	CARD PWB Unit	—
	DUNTK2983QA02	LCD PWB Unit	—
	DUNTK3036PM00	CCD PWB Unit	—
	RAMP-0035TAN1	Head Amp PWB Unit	—

DUNTK3098QA00(VL-ME100E) DUNTK3098QA01(VL-ME100S) DUNTK3098QA02(VL-ME100H) MAIN PWB UNIT

INTEGRATED CIRCUITS

⚠	CP1	VHiCCP2B25/-1	CCP2B25	AD
⚠	CP2	VHiCCP2B25/-1	CCP2B25	AD
⚠	CP3	VHiCCP2B25/-1	CCP2B25	AD
⚠	CP4	VHiCCP2B25/-1	CCP2B25	AD
	IC201	RH-iX0785TAZZ	IX0785TA, CAM ENG	BL
	IC202	RH-iX0892TAZZQ	IX0892TA, SDRAM	BK
	IC401	VHiNJU7012F-1	NJU7012F, Amp	AE
	IC405	VHiNJU7012F-1	NJU7012F, DC Amp	AE
	IC407	RH-iX0831TAZZ	IX0831TA, Codec External Memory	AY
	IC408	RH-iX0831TAZZ	IX0831TA, ECC External Memory	AY
	IC452	RH-iX0809TAZZ	IX0809TA, Codec/ECC/ PCM/CLK. Gen/Dif	BM
	IC501	RH-iX0898TAZZQ	IX0898TA, Camera/Lens Micon	AX
	IC502	VHiBR24C32F-1∗	BR24C32F, E^2PROM	AH
	IC503	VHiMB8346BV-1	MB8346BV, D/A-Converter	AN
	IC601	VHiBH7761KV-1	BH7761KV, Audio I/O	AS
	IC701	VHiRQ5RW28B-1	RQ5RW28B, Sys 2.8V Regulator	AE
	IC702	VHiSN2G04CT-1	SN2G04CT, Inverter	AE
	IC703	RH-iX0855TAZZ∗	IX0855TA, Character Generator	AL
	IC704	RH-iX0902TAZZQ	IX0902TA, Mec/System Micon	AZ
	IC705	VHiBR24C08F-1	BR24C08F, E^2PROM	AF
	IC706	VHiNJM2143R-1	NJM2143R, Error Amp	AE
	IC707	VHiRS5C313/-1	RS5C313, Timer	AL
	IC708	VHiS80937AN-1	S80937AN, Reset	AD
	IC900	VHiMB3881++-1	MB3881++, Power CTL	AT
	IC901	VHiNJM2143R-1	NJM2143R, 2.8V/2.5V Reg	AE
	IC1201	RH-iX0891TAZZQ	IX0891TA	AY
	IC1401	VHiNJM2538B-1	NJM2538B, Video Out	AM
	IC1431	VHiNJM2535V-1	NJM2535V, Video In SW	AE
	IC1602	VHiPCM3003+-1	PCM3003+, 16bit ADC/DAC	AN
	IC1701	VHiLB11990W-1	LB11990W, Motor Driver	AR
	IC1901	VHiLV4051AT-1	LV4051AT, Power Check	AE
	IC2501	VHiUPD16835-1	UPD16835	AM
	IC2502	VHiNJM2902V-1	NJM2902V, Op-Amp	AD
	IC2507	VHiNJM2902V-1	NJM2902V, Op-Amp	AD
	IC3401	VHiBH7277KV-1	BH7277KV, EQ/PLL IC	AX
	IC3402	VHiTLC2940/-1	TLC2940, VCO IC	AM
	IC3403	VHiTCSZ04U/-1	TCSZ04U, Inv IC	AE
	IC3404	VHiADC08351-1	ADC08351, A/D Conv IC	AN
	IC3405	VHiSN2G53CT-1	SN2G53CT, SW IC	AE
	IC4401	RH-iX0875TAZZQ	IX0875TA, Digital ADC/ DAC Decoder/Encoder	BD
	IC4461	VHiSN2G53CT-1	SN2G53CT, VCTL SW	AE
	IC4471	VHiTC7S04U/-1	TC7S04U, Inverter	AE
	IC4472	VHiTC7S08U/-1	TC7S08U, OSD Mute	AE
	IC4701	VHiMB88344F-1	MB88344F, D/A Converter	AV
	IC6601	VHiBA7780KV-1	BA7780KV, Mic Amp	AT
	IC6602	VHiTA75S01F-1	TA75S01F, Amp	AD
	IC6603	VHiTA75S01F-1	TA75S01F	AD
	IC7800	VHiSN2G53CT-1	SN2G53CT,Sig SW	AE
	IC8800	VHiCXA3503R-1	CXA3503R, VF RGB Decoder Controler	AX
	IC8801	VHiSNT1G08C-1	SNT1G08C, AND	AD

TRANSISTORS

Q501	VS2SA1588Y/-1	2SA1588Y	AC
Q504	VSRT1N441U/-1	RT1N441U	AB
Q601	VSFMG12////-1	FMG12	AD
Q602	VSRN4984///-1	RN4984	AC
Q604	VSHN2A01FU/-1	HN2A01FU	AC
Q605	VSRT1N441U/-1	RT1N441U	AB
Q606	VSRN4984///-1	RN4984	AC
Q608	VSFMG12////-1	FMG12	AD
Q609	VSHN2C01FU/-1	HN2C01FU	AC
Q701	VSUN9214///-1	UN9214	AB
Q702	VS2SA1989R/-1	2SA1989R	AB
Q703	VS2SA1989R/-1	2SA1989R	AB
Q706	VS2SA1588Y/-1	2SA1588Y	AC
Q707	VSUN9214///-1	UN9214	AB
Q900	VSCPH6702++-1	CPH6702++	AD
Q901	VSCPH3206//-1	CPH3206	AD
Q902	VSFMMT717//-1	FMMT717	AE
Q903	VSCPH6702++-1	CPH6702++	AD
Q904	VSCPH6702++-1	CPH6702++	AD
Q905	VSCPH3109//-1	CPH3109	AD
Q906	VSCPH6702++-1	CPH6702++	AD
Q907	VSCPH6702++-1	CPH6702++	AD
Q908	VSCPH6702++-1	CPH6702++	AD
Q909	VSNDS355AN/-1	NDS355AN	AE
Q910	VSNDS355AN/-1	NDS355AN	AE
Q1401	VSRT1N441U/-1	RT1N441U	AB
Q1405	VSRN1704///-1	RN1704	AC
Q1431	VSRN4986///-1	RN4986	AB
Q1434	VSHN2A01FU/-1	HN2A01FU	AC
Q1701	VSHN2C01FU/-1	HN2C01FU	AC
Q1900	VSRN4990///-1	RN4990	AC
Q1903	VSFC117++++-1	FC117++++	AD
Q1904	VSRN1704///-1	RN1704	AC
Q1905	VSNDS332P//-1	NDS332P	AD
Q1906	VSRN1704///-1	RN1704	AC
Q1908	VS2SA1989R/-1	2SA1989R	AB

Ref. No.	Part No.	★	Description	Code
Q1909	VSCPH3109//-1		CPH3109	AD
Q1910	VSRN4984///-1		RN4984	AC
Q1911	VS2SC4944Y/-1		2SC4944Y	AC
Q1912	VS2SC4944Y/-1		2SC4944Y	AC
Q1913	VS2SC5383F/-1		2SC5383F	AB
Q1914	VSHN2A01FU/-1		HN2A01FU	AC
Q1920	VS3LN01S///-1		3LN01S	AC
Q1922	VSRN1904///-1		RN1904	AC
Q1931	VSFDC642P++-1		FDC642P++	AE
Q1932	VSFDC642P++-1		FDC642P++	AE
Q1933	VSHN2C01FU/-1		HN2C01FU	AC
Q1934	VSRT1N441U/-1		RT1N441U	AB
Q1935	VS2SA1989R/-1		2SA1989R	AB
Q2501	VSRT1N141U/-1		RT1N141U	AB
Q2502	VSRT1N141U/-1		RT1N141U	AB
Q2503	VSRT1P141U/-1		RT1P141U	AB
Q2504	VS2SC4118Y+-1	∗	2SC4118Y+	AC
Q2505	VSRT1N141U/-1		RT1N141U	AB
Q2506	VSRT1N141U/-1		RT1N141U	AB
Q2507	VS2SA1588Y/-1		2SA1588Y	AC
Q2508	VS2SC5383F/-1		2SC5383F	AB
Q2510	VS2SC5383F/-1		2SC5383F	AB
Q3401	VS2SC4627CD-1		2SC4627CD	AB
Q3403	VSHN2A01FU/-1		HN2A01FU	AC
Q3404	VS2SC4738Y/-1		2SC4738Y	AA
Q3405	VSRT1N441U/-1		RT1N441U	AB
Q3406	VSXP05534//-1		XP05534	AD
Q4431	VSRN4986///-1		RN4986	AB
Q4432	VSRN4986///-1		RN4986	AB
Q4433	VS2SA1989R/-1		2SA1989R	AB
Q4434	VS2SA1989R/-1		2SA1989R	AB
Q4440	VS2SA1989R/-1		2SA1989R	AB
Q4441	VS2SA1989R/-1		2SA1989R	AB
Q4442	VS2SA1989R/-1		2SA1989R	AB
Q4461	VSHN2A01FU/-1		HN2A01FU	AC
Q4462	VS2SC5383F/-1		2SC5383F	AB
Q4471	VS2SC5383F/-1		2SC5383F	AB
Q4472	VS2SA1989R/-1		2SA1989R	AB
Q4481	VSHN1B04FU/-1		HN1B04FU	AC
Q4482	VSHN1B04FU/-1		HN1B04FU	AC
Q6601	VSHN1B04FU/-1		HN1B04FU	AC
Q6602	VS2SC5383F/-1		2SC5383F	AB
Q6603	VSHN2C01FU/-1		HN2C01FU	AC
Q6604	VS2SB12956/-1		2SB12956	AB
Q6605	VSRT1N441U/-1		RT1N441U	AB
Q6606	VS2SC5383F/-1		2SC5383F	AB
Q6607	VS2SC5383F/-1		2SC5383F	AB
Q6608	VSFC13/////-1		FC13	AD
Q7401	VS2SC5383F/-1		2SC5383F	AB
Q7402	VSRT1N441U/-1		RT1N441U	AB
Q7403	VS2SC5383F/-1		2SC5383F	AB
Q7800	VSHN2A01FU/-1		HN2A01FU	AC
Q7801	VSRN1704///-1		RN1704	AC
Q7820	VSHN2A01FU/-1		HN2A01FU	AC
Q7830	VSHN2A01FU/-1		HN2A01FU	AC
Q7840	VSHN2A01FU/-1		HN2A01FU	AC
Q7850	VSHN1B04FU/-1		HN1B04FU	AC
Q7861	VS2SA1989R/-1		2SA1989R	AB
Q8800	VSHN1B04FU/-1		HN1B04FU	AC

DIODES

D403	VHDHVU362//-1		HVU362	AE
D404	VHDHVU362//-1		HVU362	AE
D471	VHDHVU362//-1		HVU362	AE
D472	VHDHVU359TR-1		HVU359TR	AE
D703	RH-DX0182TAZZ		DX0182TA	AD
D901	VHDMA4S159/-1		MA4S159	AC
D1900	VHDMA132WK/-1		MA132WK	AA
D2501	VHDMC2852//-1		MC2852	AB
D2504	VHDMC2852//-1		MC2852	AB
D4451	VHDKV1812K/-1		KV1812K	AD
D4452	VHDKV1812K/-1		KV1812K	AD
D6601	VHDMA2S111/-1		MA2S111	AC
D8800	VHDHVC359TR-1		HVC359TR	AD

Ref. No.	Part No.	★	Description	Code

PACKAGED CIRCUITS

TH3401	VHHT1682J44-1		Thermistor	AC
X401	RCRSC0160TAZZ		Crystal, CRSC0160TA	AH
X701	RCRSC0032TAZZ		Crystal, CRSC0032TA	AG
X702	RCRSC0183TAZZ		Crystal, CRSC0183TA	AH
X4451	RCRSC0167TAZZ		Crystal, CRSC0167TA	AM

COILS AND TRANSFORMER

CF501	RFiLC0072TAZZ		Filter, FiLC0072TA	AE
FL403	RFiLC0164TAZZ		Filter, FiLC0164TA	AH
FL3401	RCiLF0408TAZZ		Coil, CiLF0408TA	AG
FL3402	RCiLF0408TAZZ		Coil, CiLF0408TA	AG
FL3403	RCiLF0409TAZZ		Coil, CiLF0409TA	AG
FL7401	RCiLF0391TAZZ		Coil, CiLF0391TA	AG
FL7402	RCiLF0391TAZZ		Coil, CiLF0391TA	AG
L204	VPCEM470M3R7N		Peaking, 47µH	AC
L402	VPMAN100MR50N		Peaking, 10µH	AC
L403	VPCEM100MR70N		Peaking, 10µH	AC
L471	VPD9M100J1R7N		Peaking, 10µH	AC
L501	VPMAN100MR50N		Peaking, 10µH	AC
L601	VPCEM470M3R7N		Peaking, 47µH	AC
L603	VPBWM100KR50N		Peaking, 10µH	AC
L701	VPMAN100MR50N		Peaking, 10µH	AC
L900	RCiLP0323TAZZ		Coil, 4.7µH	AD
L901	RCiLP0311TAZZ		Coil, 15µH	AE
L902	VPCEM2R2MR23N		Peaking, 2.2µH	AC
L903	VPCEM2R2MR23N		Peaking, 2.2µH	AC
L904	VPCEM2R2MR23N		Peaking, 2.2µH	AC
L905	VPCEM4R7MR40N		Peaking, 4.7µH	AC
L906	VPCEM4R7MR40N		Peaking, 4.7µH	AC
L907	RCiLP0311TAZZ		Coil, 15µH	AE
L908	VPCEM2R2MR23N		Peaking, 2.2µH	AC
L909	VPCEM4R7MR40N		Peaking, 4.7µH	AC
L910	VPCEM2R2MR23N		Peaking, 2.2µH	AC
L911	RCiLP0311TAZZ		Coil, 15µH	AE
L912	VPBAM2R2M090N		Peaking, 2.2µH	AC
L913	VPM6N100MR75N		Peaking, 10µH	AC
L914	VPM6N100MR75N		Peaking, 10µH	AC
L915	RCiLP0323TAZZ		Coil, 4.7µH	AD
L916	RCiLP0313TAZZ		Coil, 33µH	AE
L917	RCiLP0313TAZZ		Coil, 33µH	AE
L918	RCiLP0311TAZZ		Coil, 15µH	AE
L919	VPBAM2R2M090N		Peaking, 2.2µH	AC
L990	RCiLP0324TAZZ		Coil, 15µH	AD
L1402	VPCEM470M3R7N		Peaking, 47µH	AC
L1404	VPCEM470M3R7N		Peaking, 47µH	AC
L1431	VPCEM470M3R7N		Peaking, 47µH	AC
L1601	VPMAN100MR50N		Peaking, 10µH	AC
L1701	VPMAN100MR50N		Peaking, 10µH	AC
L1702	VPCEM4R7MR40N		Peaking, 4.7µH	AC
L1903	VPCEM2R2MR23N		Peaking, 2.2µH	AC
L1905	VPCEM2R2MR23N		Peaking, 2.2µH	AC
L1906	VPBAM2R2M090N		Peaking, 2.2µH	AC
L2501	VPCEM100MR70N		Peaking, 10µH	AC
L2502	VPCBM220K1R3N		Peaking, 22µH	AC
L3401	RCiLP0276TAZZ		Coil, CiLP0276TA	AC
L3402	VPCBM4R7MR25N		Peaking, 4.7µH	AC
L3404	VPCBM4R7MR25N		Peaking, 4.7µH	AC
L3405	VPCBM4R7MR25N		Peaking, 4.7µH	AC
L4401	VPCBM220K1R3N		Peaking, 22µH	AC
L4402	VPMAN100MR50N		Peaking, 10µH	AC
L4451	RCiLP0275TAZZ		Coil, CiLP0275TA	AD
L4461	VPCEM470M3R7N		Peaking, 47µH	AC
L4481	VPCEM470M3R7N		Peaking, 47µH	AC
L6601	VPCBM470K2R4N		Peaking, 47µH	AC
L7400	VPMAN100MR50N		Peaking, 10µH	AC
L8800	VPAWM100J2R6N		Peaking, 10µH	AC
L8801	VPCEM100MR70N		Peaking, 10µH	AC
L8803	VPAWM150J3R2N		Peaking, 15µH	AC
L8804	VPCEM100MR70N		Peaking, 10µH	AC
L8805	VPCEM470M3R7N		Peaking, 47µH	AC
⚠ T900	RTRNZ0162TAZZ		Power Transformer	AF

CAPACITORS

C201	VCSATA0JJ156M	15	6.3V	Tantalum	AC

Ref. No.	Part No.	★	Description	Code
C202	VCSATA0JJ156M	15	6.3V Tantalum	AC
C203	VCSATA0JJ156M	15	6.3V Tantalum	AC
C204	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C205	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C207	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C211	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C212	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C213	VCSATA0JJ156M	15	6.3V Tantalum	AC
C222	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C223	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C224	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C230	VCSATA0JJ156M	15	6.3V Tantalum	AC
C231	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C232	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C236	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C237	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C238	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C239	VCCCCZ1HH220J	22p	50V Ceramic	AB
C240	VCCCCZ1HH6R0D	6p	50V Ceramic	AA
C401	RC-KZ0083TAZZ	2.2	10V Ceramic	AD
C402	RC-KZ0083TAZZ	2.2	10V Ceramic	AD
C403	RC-KZ0083TAZZ	2.2	10V Ceramic	AD
C404	VCSAPR1AJ475M	4.7	10V Tantalum	AD
C405	VCKYCY1CB473K	0.047	16V Ceramic	AA
C407	VCKYTV1CF225Z	2.2	16V Ceramic	AC
C410	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C411	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C412	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C413	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C414	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C415	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C416	VCSATE0JJ107M	100	6.3V Tantalum	AE
C418	VCCCCZ1HH120J	12p	50V Ceramic	AB
C419	VCCCCZ1HH120J	12p	50V Ceramic	AB
C420	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C421	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C422	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C423	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C424	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C425	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C430	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C432	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C435	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C447	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C448	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C449	RC-KZ0083TAZZ	2.2	10V Ceramic	AD
C450	RC-KZ0115TAZZ	4.7	6.3V Ceramic	AD
C451	VCKYCY0JB105K	1	6.3V Ceramic	AC
C452	VCKYCY1CB104K	0.1	16V Ceramic	AB
C456	VCSATA1AJ475M	4.7	10V Tantalum	AC
C460	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C462	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C463	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C465	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C467	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C468	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C473	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C474	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C501	VCKYTV1AB105K	1	10V Ceramic	AD
C502	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C503	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C507	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C508	VCSATA1AJ106M	10	10V Tantalum	AC
C509	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C510	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C511	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C603	VCKYTV1CF225Z	2.2	16V Ceramic	AC
C605	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C606	VCKYCY0JB105K	1	6.3V Ceramic	AC
C607	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C608	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C610	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C611	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C616	VCKYTV1CF225Z	2.2	16V Ceramic	AC
C617	VCKYCY0JB105K	1	6.3V Ceramic	AC

Ref. No.	Part No.	★	Description	Code
C618	VCKYCY1CB683K	0.068	16V Ceramic	AC
C619	VCKYCY1CB473K	0.047	16V Ceramic	AA
C621	VCCCCZ1HH101J	100p	50V Ceramic	AB
C622	VCKYCZ1EB472K	4700p	25V Ceramic	AB
C623	VCKYCY1CB104K	0.1	16V Ceramic	AB
C624	VCKYCZ1EB472K	4700p	25V Ceramic	AB
C625	VCKYCY1CB473K	0.047	16V Ceramic	AA
C626	VCKYCZ1EB472K	4700p	25V Ceramic	AB
C628	VCKYCY1CB104K	0.1	16V Ceramic	AB
C629	VCKYCZ1EB472K	4700p	25V Ceramic	AB
C631	VCSAPR1AJ105M	1	10V Tantalum	AD
C632	VCSATA0JJ226M	22	6.3V Tantalum	AD
C633	VCSATA0JJ226M	22	6.3V Tantalum	AD
C635	VCSATE1AJ476M	47	10V Tantalum	AD
C637	VCKYCY0JF105Z	1	6.3V Ceramic	AB
C638	VCSAPR1AJ475M	4.7	10V Tantalum	AD
C640	VCSATE1AJ476M	47	10V Tantalum	AD
C641	VCKYCY0JF105Z	1	6.3V Ceramic	AB
C642	VCSATE0JJ107M	100	6.3V Tantalum	AE
C644	VCKYCY1CB683K	0.068	16V Ceramic	AC
C645	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C646	VCKYCY0JF105Z	1	6.3V Ceramic	AB
C647	VCKYCY1CB473K	0.047	16V Ceramic	AA
C648	VCKYCY1CB473K	0.047	16V Ceramic	AA
C651	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C661	VCCCCZ1HH101J	100p	50V Ceramic	AB
C685	VCSATA0JJ226M	22	6.3V Tantalum	AD
C686	VCSATA0JJ226M	22	6.3V Tantalum	AD
C701	VCKYCY1AF105Z	1	10V Ceramic	AC
C702	VCKYCY0JF105Z	1	6.3V Ceramic	AB
C703	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C705	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C706	VCSACB0JJ106M	10	6.3V Tantalum	AD
C708	VCCCCZ1HH221J	220p	50V Ceramic	AB
C709	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C710	VCCCCZ1HH221J	220p	50V Ceramic	AB
C711	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C712	VCKYTV1AB105K	1	10V Ceramic	AD
C713	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C714	VCCCCZ1HH330J	33p	50V Ceramic	AB
C716	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C717	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C718	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C719	VCCCCZ1HH270J	27p	50V Ceramic	AB
C720	VCCCCZ1HH270J	27p	50V Ceramic	AB
C721	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C722	VCKYCY1CB104K	0.1	16V Ceramic	AB
C723	VCKYCY1CB104K	0.1	16V Ceramic	AB
C724	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C725	VCKYCZ1EB682K	6800p	25V Ceramic	AB
C726	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C727	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C728	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C729	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C730	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C731	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C732	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C733	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C734	VCKYCZ1AF104Z	0.1	10V Ceramic	AB
C736	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C737	VCKYCZ1EB682K	6800p	25V Ceramic	AB
C738	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C739	VCKYTV1AB105K	1	10V Ceramic	AD
C900	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C901	RC-KZ0069TAZZ	10	16V Ceramic	AE
C904	VCKYCZ1CB103K	0.01	16V Ceramic	AB
C908	VCKYCZ1AB473K	0.047	10V Ceramic	AB
C910	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C911	VCKYCY1CB104K	0.1	16V Ceramic	AB
C912	VCKYCZ1AB104K	0.1	10V Ceramic	AB
C913	VCKYCY1HB103K	0.01	50V Ceramic	AA
C914	VCCCCZ1HH101J	100p	50V Ceramic	AB
C915	VCKYCY1AB224K	0.22	10V Ceramic	AB
C916	VCKYCZ1HB102K	1000p	50V Ceramic	AB
C917	VCKYCZ1HB221K	220p	50V Ceramic	AA

Ref. No.	Part No.	★	Description			Code
C918	VCKYCZ1HB221K		220p	50V	Ceramic	AA
C919	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C920	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C921	VCKYCY1AF105Z		1	10V	Ceramic	AC
C922	VCKYCY1AF105Z		1	10V	Ceramic	AC
C923	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C924	VCKYCZ1HB471K		470p	50V	Ceramic	AB
C925	VCKYCZ1HB471K		470p	50V	Ceramic	AB
C930	RC-KZ0070TAZZ		4.7	16V	Ceramic	AD
C931	RC-KZ0075TAZZ		2.2	16V	Ceramic	AC
C932	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C933	RC-KZ0044TAZZ		4.7	10V	Ceramic	AD
C934	RC-KZ0083TAZZ		2.2	10V	Ceramic	AD
C935	VCKYTV1AB105K		1	10V	Ceramic	AD
C936	VCSATE1AJ476M		47	10V	Tantalum	AD
C937	RC-KZ0070TAZZ		4.7	16V	Ceramic	AD
C938	RC-KZ0099TAZZ		10	6.3V	Ceramic	AD
C939	VCKYTV1AB105K		1	10V	Ceramic	AD
C941	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C943	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C946	VCKYTV1AB105K		1	10V	Ceramic	AD
C949	VCKYTV1AB105K		1	10V	Ceramic	AD
C950	VCKYTV1AB105K		1	10V	Ceramic	AD
C951	VCKYTV1AB105K		1	10V	Ceramic	AD
C952	RC-KZ0083TAZZ		2.2	10V	Ceramic	AD
C953	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C954	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C955	RC-KZ0075TAZZ		2.2	16V	Ceramic	AC
C956	RC-KZ0044TAZZ		4.7	10V	Ceramic	AD
C957	VCKYTV1AB105K		1	10V	Ceramic	AD
C960	RC-KZ0070TAZZ		4.7	16V	Ceramic	AD
C961	VCKYCZ1HB222K		2200p	50V	Ceramic	AB
C962	RC-KZ0072TAZZ		1	25V	Ceramic	AC
C963	RC-KZ0072TAZZ		1	25V	Ceramic	AC
C964	VCKYTV1CF105Z		1	16V	Ceramic	AB
C965	VCKYTV1EB104K		0.1	25V	Ceramic	AB
C966	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C970	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C971	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C972	RC-KZ0070TAZZ		4.7	16V	Ceramic	AD
C973	RC-KZ0069TAZZ		10	16V	Ceramic	AE
C974	RC-KZ0070TAZZ		4.7	16V	Ceramic	AD
C980	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C981	RC-KZ0075TAZZ		2.2	16V	Ceramic	AC
C982	RC-KZ0044TAZZ		4.7	10V	Ceramic	AD
C983	VCKYTV1AB105K		1	10V	Ceramic	AD
C1201	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C1402	VCSATE1AJ226M		22	10V	Tantalum	AD
C1404	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C1405	VCSACB0JJ106M		10	6.3V	Tantalum	AD
C1406	VCSATE0JJ107M		100	6.3V	Tantalum	AE
C1407	VCSATA0JJ156M		15	6.3V	Tantalum	AC
C1408	VCKYCY0JF105Z		1	6.3V	Ceramic	AB
C1409	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C1410	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C1411	VCSATE0JJ107M		100	6.3V	Tantalum	AE
C1412	VCSATA0JJ156M		15	6.3V	Tantalum	AC
C1413	VCSACB0JJ106M		10	6.3V	Tantalum	AD
C1414	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C1415	VCSATE1AJ226M		22	10V	Tantalum	AD
C1416	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C1417	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C1418	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C1431	VCSATE1AJ226M		22	10V	Tantalum	AD
C1438	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C1439	VCKYCY0JF105Z		1	6.3V	Ceramic	AB
C1440	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C1602	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C1603	VCKYTV1AB105K		1	10V	Ceramic	AD
C1604	VCKYTV1AB105K		1	10V	Ceramic	AD
C1605	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C1607	VCSATA0JJ106M		10	6.3V	Tantalum	AD
C1608	VCSATA0JJ106M		10	6.3V	Tantalum	AD
C1610	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C1611	VCKYTV1CB224K		0.22	16V	Ceramic	AB

Ref. No.	Part No.	★	Description			Code
C1613	VCSATA1AJ475M		4.7	10V	Tantalum	AC
C1616	VCSATA1AJ475M		4.7	10V	Tantalum	AC
C1617	VCKYTV1CB224K		0.22	16V	Ceramic	AB
C1701	VCKYCZ1CB223K		0.022	16V	Ceramic	AC
C1702	VCKYCZ1CB223K		0.022	16V	Ceramic	AC
C1703	VCKYTV1AB105K		1	10V	Ceramic	AD
C1704	VCKYCY1AF105Z		1	10V	Ceramic	AC
C1705	VCKYCY1CB104K		0.1	16V	Ceramic	AB
C1706	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C1707	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C1708	RC-KZ0083TAZZ		2.2	10V	Ceramic	AD
C1709	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C1710	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C1711	VCKYTV1AB105K		1	10V	Ceramic	AD
C1712	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C1713	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C1714	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C1715	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C1716	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C1717	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C1718	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C1719	VCKYCY0JF105Z		1	6.3V	Ceramic	AB
C1720	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C1721	VCKYCY0JF105Z		1	6.3V	Ceramic	AB
C1722	VCKYCY1CB473K		0.047	16V	Ceramic	AA
C1723	VCKYCZ1EB472K		4700p	25V	Ceramic	AB
C1724	VCKYCY1AF105Z		1	10V	Ceramic	AC
C1725	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C1726	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C1727	VCCCCZ1HH101J		100p	50V	Ceramic	AB
C1728	VCKYCY1AF105Z		1	10V	Ceramic	AC
C1903	RC-KZ0083TAZZ		2.2	10V	Ceramic	AD
C1905	VCKYTV1AB105K		1	10V	Ceramic	AD
C1906	VCKYCZ1AB104K		0.1	10V	Ceramic	AB
C1907	VCSATA0JJ336M		33	6.3V	Tantalum	AD
C1908	VCKYCY0JB105K		1	6.3V	Ceramic	AC
C1910	VCKYTV1CB105K		1	16V	Ceramic	AC
C1920	VCSATA1EJ105M		1	25V	Tantalum	AC
C1921	VCSATA1CJ106M		10	16V	Tantalum	AD
C1922	VCKYTV1EB104K		0.1	25V	Ceramic	AB
C1931	VCKYCY1HB103K		0.01	50V	Ceramic	AA
C1932	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C1980	VCKYCZ1AB104K		0.1	10V	Ceramic	AB
C2501	VCKYCZ1HF103Z		0.01	50V	Ceramic	AB
C2502	VCCCCZ1HH330J		33p	50V	Ceramic	AB
C2503	VCKYCZ1HF103Z		0.01	50V	Ceramic	AB
C2504	VCKYCZ1HF103Z		0.01	50V	Ceramic	AB
C2505	VCKYCZ1HF103Z		0.01	50V	Ceramic	AB
C2506	VCKYCZ1HF103Z		0.01	50V	Ceramic	AB
C2507	VCSATA1CJ106M		10	16V	Tantalum	AD
C2508	VCKYCZ1HF103Z		0.01	50V	Ceramic	AB
C2509	VCSAPR0JJ106M		10	6.3V	Tantalum	AD
C2511	VCSATA1AJ106M		10	10V	Tantalum	AC
C2512	VCKYCZ1HF103Z		0.01	50V	Ceramic	AB
C2513	VCKYCY1AB224K		0.22	10V	Ceramic	AB
C2515	VCKYCZ1HF103Z		0.01	50V	Ceramic	AB
C2516	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C2517	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C2518	VCCCCZ1HH151J		150p	50V	Ceramic	AB
C2520	VCKYCZ1HF103Z		0.01	50V	Ceramic	AB
C2542	VCKYCZ1HF103Z		0.01	50V	Ceramic	AB
C2544	VCKYCY1AB224K		0.22	10V	Ceramic	AB
C2546	VCKYCZ1HF103Z		0.01	50V	Ceramic	AB
C2548	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C2549	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C2551	VCCCCZ1HH151J		150p	50V	Ceramic	AB
C2552	VCKYCZ1HF103Z		0.01	50V	Ceramic	AB
C2555	VCCCCZ1HH101J		100p	50V	Ceramic	AB
C2556	VCCCCZ1HH101J		100p	50V	Ceramic	AB
C2557	VCKYCZ1CB103K	∗	0.01	16V	Ceramic	AB
C3401	VCCCCZ1HH220J		22p	50V	Ceramic	AB
C3402	VCCCCZ1HH120J		12p	50V	Ceramic	AB
C3403	VCCCCZ1HH390J		39p	50V	Ceramic	AB
C3405	VCCCCZ1HH680J		68p	50V	Ceramic	AB
C3406	VCKYCY0JB105K		1	6.3V	Ceramic	AC

Ref. No.	Part No.	★	Description			Code
C3408	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C3409	VCKYCZ1HB471K		470p	50V	Ceramic	AB
C3410	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C3411	VCKYCZ1HB471K		470p	50V	Ceramic	AB
C3412	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C3413	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C3414	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C3415	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C3416	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C3417	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C3418	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C3419	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C3421	VCCCCZ1HH121J		120p	50V	Ceramic	AB
C3423	VCCCCZ1HH121J		120p	50V	Ceramic	AB
C3424	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C3425	VCSATA0JJ336M		33	6.3V	Tantalum	AD
C3426	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C3428	VCKYTV1CB224K		0.22	16V	Ceramic	AB
C3429	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C3430	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C3431	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C3432	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C3433	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C3434	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C3436	VCSATA0JJ336M		33	6.3V	Tantalum	AD
C3442	VCCCCZ1HH220J		22p	50V	Ceramic	AB
C3443	VCCCCZ1HH470J		47p	50V	Ceramic	AB
C3444	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C3452	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C3454	VCSAPR0JJ106M		10	6.3V	Tantalum	AD
C3455	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C3456	VCSAPR0JJ106M		10	6.3V	Tantalum	AD
C3457	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C3458	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C3462	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C3467	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C3470	VCCCCZ1HH5R0C		5p	50V	Ceramic	AC
C3471	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C3473	VCSATE1AJ336M		33	10V	Tantalum	AG
C3474	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C3475	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C3476	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C3477	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C3479	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C3481	VCCCCZ1HH100D		10p	50V	Ceramic	AB
C4401	RC-KZ0083TAZZ		2.2	10V	Ceramic	AD
C4402	RC-KZ0083TAZZ		2.2	10V	Ceramic	AD
C4404	RC-KZ0083TAZZ		2.2	10V	Ceramic	AD
C4405	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4406	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4407	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4408	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4409	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4410	VCKYCZ1AB104K		0.1	10V	Ceramic	AB
C4411	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4413	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4417	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4419	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4420	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4421	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4422	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4423	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4424	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4425	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4427	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4429	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4431	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4432	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4435	VCSACB0JJ106M		10	6.3V	Tantalum	AD
C4436	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4440	VCSACB0JJ106M		10	6.3V	Tantalum	AD
C4441	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4451	VCCCCZ1HH330J		33p	50V	Ceramic	AB
C4454	VCCCCZ1HH330J		33p	50V	Ceramic	AB
C4461	VCSAPR1AJ475M		4.7	10V	Tantalum	AD

Ref. No.	Part No.	★	Description			Code
C4462	VCKYCZ1EB682K		6800p	25V	Ceramic	AB
C4463	VCKYCZ1EB682K		6800p	25V	Ceramic	AB
C4464	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4465	VCKYCZ1AB104K		0.1	10V	Ceramic	AB
C4466	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4472	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4481	VCSACB0JJ106M		10	6.3V	Tantalum	AD
C4482	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4483	VCSAPR1AJ475M		4.7	10V	Tantalum	AD
C4485	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C4701	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C4702	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C6603	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C6604	VCSAPR0JJ106M		10	6.3V	Tantalum	AD
C6605	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C6606	VCKYCZ1CB223K		0.022	16V	Ceramic	AC
C6607	VCKYCZ1CB223K		0.022	16V	Ceramic	AC
C6608	VCKYCZ1AB104K		0.1	10V	Ceramic	AB
C6610	VCKYCZ1AB104K		0.1	10V	Ceramic	AB
C6611	VCKYCY1AB224K		0.22	10V	Ceramic	AB
C6612	VCKYCY1AB224K		0.22	10V	Ceramic	AB
C6613	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C6614	VCKYCY1CB273K		0.027	16V	Ceramic	AA
C6615	VCKYCY1CB104K		0.1	16V	Ceramic	AB
C6616	VCKYCY1EB223K		0.022	25V	Ceramic	AA
C6617	VCKYCY1EB223K		0.022	25V	Ceramic	AA
C6618	VCKYCZ1CB223K		0.022	16V	Ceramic	AC
C6619	VCKYCZ1CB123K		0.012	16V	Ceramic	AB
C6620	VCKYCZ1HB471K		470p	50V	Ceramic	AB
C6621	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C6622	VCKYCZ1CB223K		0.022	16V	Ceramic	AC
C6623	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C6626	VCKYCZ1CB223K		0.022	16V	Ceramic	AC
C6628	VCSAPR0JJ106M		10	6.3V	Tantalum	AD
C6629	VCKYCZ1AB104K		0.1	10V	Ceramic	AB
C6630	VCKYCZ1AB104K		0.1	10V	Ceramic	AB
C6631	VCKYCZ1AB104K		0.1	10V	Ceramic	AB
C6632	VCKYCY1AB224K		0.22	10V	Ceramic	AB
C6633	VCKYCY1CB273K		0.027	16V	Ceramic	AA
C6634	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C6635	VCKYCY1AB224K		0.22	10V	Ceramic	AB
C6636	VCKYCY1EB223K		0.022	25V	Ceramic	AA
C6637	VCKYCY1EB223K		0.022	25V	Ceramic	AA
C6638	VCKYCY1CB104K		0.1	16V	Ceramic	AB
C6639	VCKYCZ1CB223K		0.022	16V	Ceramic	AC
C6640	VCKYCZ1CB123K		0.012	16V	Ceramic	AB
C6641	VCKYCZ1HB471K		470p	50V	Ceramic	AB
C6642	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C6643	VCSATA1AJ106M		10	10V	Tantalum	AC
C6644	VCKYCY0JF105Z		1	6.3V	Ceramic	AB
C6645	VCKYCY0JF105Z		1	6.3V	Ceramic	AB
C6646	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C6650	VCCCCZ1HH101J		100p	50V	Ceramic	AB
C6651	VCKYCY1AB224K		0.22	10V	Ceramic	AB
C6652	VCKYCY1CB473K		0.047	16V	Ceramic	AA
C6653	VCKYCY1EB223K		0.022	25V	Ceramic	AA
C6654	VCKYCY1AB224K		0.22	10V	Ceramic	AB
C6655	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C6656	VCSAPD1AJ225M		2.2	10V	Tantalum	AC
C6657	VCSAPD1AJ225M		2.2	10V	Tantalum	AC
C6658	VCKYCZ1AB104K		0.1	10V	Ceramic	AB
C6659	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C6660	VCCCCZ1HH101J		100p	50V	Ceramic	AB
C6680	VCKYCZ1CB223K		0.022	16V	Ceramic	AC
C6681	VCKYCZ1CB123K		0.012	16V	Ceramic	AB
C6682	VCKYCZ1CB123K		0.012	16V	Ceramic	AB
C6683	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C7400	RC-KZ0083TAZZ		2.2	10V	Ceramic	AD
C7401	RC-KZ0083TAZZ		2.2	10V	Ceramic	AD
C7402	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C7403	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C7404	VCKYCZ1EB472K		4700p	25V	Ceramic	AB
C7413	VCKYCZ1HB221K		220p	50V	Ceramic	AA
C7414	VCCCCZ1HH330J		33p	50V	Ceramic	AB
C7417	VCKYCY0JB105K		1	6.3V	Ceramic	AC

Ref. No.	Part No.	★	Description	Code
C7808	VCKYTV1AB105K		1 10V Ceramic	AD
C7809	VCKYTV1AB105K		1 10V Ceramic	AD
C7810	VCKYTV1AB105K		1 10V Ceramic	AD
C7842	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C7843	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C7859	VCCCCZ1HH101J		100p 50V Ceramic	AB
C7861	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C8800	VCKYCY0JB105K		1 6.3V Ceramic	AC
C8801	VCSATA0JJ336M		33 6.3V Tantalum	AD
C8802	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C8803	VCKYCY0JB105K		1 6.3V Ceramic	AC
C8804	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C8805	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C8806	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C8807	VCKYTV1CB105K		1 16V Ceramic	AC
C8808	VCKYTV1CB105K		1 16V Ceramic	AC
C8809	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C8810	VCCCCZ1HH330J		33p 50V Ceramic	AB
C8811	VCCCCZ1HH330J		33p 50V Ceramic	AB
C8812	VCCCCZ1HH330J		33p 50V Ceramic	AB
C8815	VCKYCY0JB105K		1 6.3V Ceramic	AC
C8816	VCKYCY0JB105K		1 6.3V Ceramic	AC
C8817	VCKYCY0JB105K		1 6.3V Ceramic	AC
C8818	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C8819	VCKYCZ1AB104K		0.1 10V Ceramic	AB
C8820	VCKYCZ1HB102K		1000p 50V Ceramic	AB
C8821	VCCCCZ1HH390J		39p 50V Ceramic	AB
C8822	VCKYCY0JB105K		1 6.3V Ceramic	AC
C8823	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C8824	RC-KZ0101TAZZ		3.3 6.3V Ceramic	AD
C8825	VCKYCZ1HB332K		3300p 50V Ceramic	AA
C8826	VCKYCZ1HB102K		1000p 50V Ceramic	AB
C8828	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C8829	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C8831	RC-KZ0055TAZZ		3.3 10V Ceramic	AD
C8832	VCKYTV1CB105K		1 16V Ceramic	AC
C8834	VCKYCY0JB105K		1 6.3V Ceramic	AC
C8835	VCKYCY0JB105K		1 6.3V Ceramic	AC
C8836	VCKYCY0JB105K		1 6.3V Ceramic	AC
C8837	VCCCCZ1HH221J		220p 50V Ceramic	AB
C8838	VCKYCZ1AB104K		0.1 10V Ceramic	AB

RESISTORS

R201	VRK-SB1FF473J		47k 0.0315W Metal Composition	AB
R202	VRK-SB1FF473J		47k 0.0315W Metal Composition	AB
R203	VRK-SB1FF473J		47k 0.0315W Metal Composition	AB
R204	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R205	VRK-SB1FF473J		47k 0.0315W Metal Composition	AB
R206	VRK-SB1FF473J		47k 0.0315W Metal Composition	AB
R208	VRK-SB1FF102J		1k 0.0315W Metal Composition	AC
R209	VRK-SB1FF102J		1k 0.0315W Metal Composition	AC
R210	VRK-SB1FF102J		1k 0.0315W Metal Composition	AC
R213	VRK-SB1FF102J		1k 0.0315W Metal Composition	AC
R214	VRK-SB1FF102J		1k 0.0315W Metal Composition	AC
R217	VRS-CZ1JF272J		2.7k 1/16W Metal Oxide	AA
R220	VRS-CZ1JF820J		82 1/16W Metal Oxide	AA
R222	VRS-CZ1JF272J		2.7k 1/16W Metal Oxide	AA
R224	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R225	VRS-CZ1JF123J		12k 1/16W Metal Oxide	AA
R226	VRS-CZ1JF820J		82 1/16W Metal Oxide	AA
R228	VRS-CZ1JF272J		2.7k 1/16W Metal Oxide	AA
R235	VRS-CZ1JF333J		33k 1/16W Metal Oxide	AA
R236	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R251	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R253	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R254	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R257	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R259	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R261	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R401	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R402	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R403	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R404	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R405	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R406	VRS-CZ1JF101J		100 1/16W Metal Oxide	AA
R407	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R409	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R410	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R411	VRS-CZ1JF154J		150k 1/16W Metal Oxide	AA
R412	VRS-CZ1JF334J		330k 1/16W Metal Oxide	AA
R413	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R414	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R416	VRS-CZ1JF823J		82k 1/16W Metal Oxide	AA
R418	VRS-CZ1JF101J		100 1/16W Metal Oxide	AA
R420	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R429	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R431	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R432	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R436	VRS-CZ1JF224J		220k 1/16W Metal Oxide	AA
R437	VRS-CZ1JF224J		220k 1/16W Metal Oxide	AA
R438	VRS-CZ1JF101J		100 1/16W Metal Oxide	AA
R440	VRS-CZ1JF393J		39k 1/16W Metal Oxide	AA
R441	VRS-CZ1JF563J		56k 1/16W Metal Oxide	AA
R442	VRS-CZ1JF114J		110k 1/16W Metal Oxide	AB
R443	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R446	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R462	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R463	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R467	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R468	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R469	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R471	VRS-CZ1JF472J		4.7k 1/16W Metal Oxide	AA
R477	VRS-CZ1JF823J		82k 1/16W Metal Oxide	AA
R478	VRS-CZ1JF823J		82k 1/16W Metal Oxide	AA
R480	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R481	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R482	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R504	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R505	VRS-CZ1JF273J		27k 1/16W Metal Oxide	AA
R506	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R509	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R513	VRS-CZ1JF221J		220 1/16W Metal Oxide	AA
R514	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R516	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R517	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R520	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R521	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R522	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R523	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R526	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R527	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R529	VRK-SA1JF103J		10k 1/16W Metal Composition	AB
R530	VRK-SA1JF102J		1k 1/16W Metal Composition	AB
R531	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R532	VRS-CZ1JF273J		27k 1/16W Metal Oxide	AA
R533	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R535	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R536	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R537	VRS-TV1JD820J		82 1/16W Metal Oxide	AA
R538	VRS-TV1JD820J		82 1/16W Metal Oxide	AA
R539	VRS-TV1JD820J		82 1/16W Metal Oxide	AA
R603	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R609	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R610	VRS-CZ1JF562J		5.6k 1/16W Metal Oxide	AA
R613	VRS-CZ1JF683J		68k 1/16W Metal Oxide	AA
R614	VRK-SA1JF222J		2.2k 1/16W Metal Composition	AB
R616	VRS-CZ1JF683J		68k 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R621	VRS-CZ1JF682J		6.8k 1/16W Metal Oxide	AA
R623	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide	AA
R624	VRS-CZ1JF122J		1.2k 1/16W Metal Oxide	AA
R625	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R626	VRS-CZ1JF682J		6.8k 1/16W Metal Oxide	AA
R627	VRS-CZ1JF333J		33k 1/16W Metal Oxide	AA
R628	VRS-CZ1JF122J		1.2k 1/16W Metal Oxide	AA
R630	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R631	VRS-CZ1JF333J		33k 1/16W Metal Oxide	AA
R632	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R633	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide	AA
R634	VRS-CZ1JF123J		12k 1/16W Metal Oxide	AA
R635	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R638	VRS-CZ1JF106J		10M 1/16W Metal Oxide	AA
R639	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R640	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R641	VRS-CZ1JF562J		5.6k 1/16W Metal Oxide	AA
R647	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R648	VRS-CZ1JF152J		1.5k 1/16W Metal Oxide	AA
R649	VRS-CZ1JF152J		1.5k 1/16W Metal Oxide	AA
R651	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R652	VRS-CZ1JF123J		12k 1/16W Metal Oxide	AA
R653	VRS-CZ1JF683J		68k 1/16W Metal Oxide	AA
R655	VRK-SA1JF223J		22k 1/16W Metal Composition	AB
R656	VRS-CZ1JF563J		56k 1/16W Metal Oxide	AA
R657	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R658	VRS-CZ1JF273J		27k 1/16W Metal Oxide	AA
R660	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R661	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R662	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R663	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R667	VRS-CZ1JF683J		68k 1/16W Metal Oxide	AA
R668	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R670	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R673	VRS-CZ1JF122J		1.2k 1/16W Metal Oxide	AA
R676	VRS-CZ1JF122J		1.2k 1/16W Metal Oxide	AA
R683	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R685	VRS-CZ1JF563J		56k 1/16W Metal Oxide	AA
R686	VRS-CZ1JF563J		56k 1/16W Metal Oxide	AA
R687	VRS-CZ1JF121J		120 1/16W Metal Oxide	AA
R688	VRS-CZ1JF121J		120 1/16W Metal Oxide	AA
R701	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R703	VRS-CZ1JF562J		5.6k 1/16W Metal Oxide	AA
R704	VRS-CZ1JF273J		27k 1/16W Metal Oxide	AA
R706	VRS-CZ1JF683D		68k 1/16W Metal Oxide	AB
R708	VRS-CZ1JF683D		68k 1/16W Metal Oxide	AB
R709	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R711	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R712	VRS-CZ1JF473J		47k 1/16W Metal Oxide	AA
R713	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R716	VRS-CZ1JF272J		2.7k 1/16W Metal Oxide	AA
R717	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R718	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R719	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R720	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R721	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R722	VRS-CZ1JF473J		47k 1/16W Metal Oxide	AA
R723	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R724	VRS-CZ1JF823J		82k 1/16W Metal Oxide	AA
R725	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R726	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R728	VRS-CZ1JF473J		47k 1/16W Metal Oxide	AA
R729	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R730	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R731	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R732	VRS-CZ1JF474J		470k 1/16W Metal Oxide	AA
R733	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R734	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R735	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R736	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R737	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R738	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R739	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R740	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R741	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R742	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R743	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R744	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R745	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R746	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R747	VRS-CZ1JF683J		68k 1/16W Metal Oxide	AA
R748	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R749	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R750	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R751	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R752	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R753	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R754	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R755	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R756	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R757	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R759	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R760	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R761	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R762	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R763	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R764	VRS-CZ1JF473J		47k 1/16W Metal Oxide	AA
R765	VRS-CZ1JF473J		47k 1/16W Metal Oxide	AA
R766	VRS-CZ1JF473J		47k 1/16W Metal Oxide	AA
R767	VRS-CZ1JF473J		47k 1/16W Metal Oxide	AA
R769	VRS-CZ1JF224J		220k 1/16W Metal Oxide	AA
R770	VRS-CZ1JF224J		220k 1/16W Metal Oxide	AA
R771	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R772	VRS-CZ1JF474J		470k 1/16W Metal Oxide	AA
R773	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R776	VRS-CZ1JF473J		47k 1/16W Metal Oxide	AA
R777	VRS-CZ1JF473J		47k 1/16W Metal Oxide	AA
R779	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R780	VRS-CY1JF100J		10 1/16W Metal Oxide	AA
R782	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R783	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R784	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R900	VRS-CZ1JF104D		100k 1/16W Metal Oxide	AB
R901	VRS-CZ1JF433D		43k 1/16W Metal Oxide	AA
R902	VRS-CZ1JF472J		4.7k 1/16W Metal Oxide	AA
R903	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R904	VRS-CZ1JF123J		12k 1/16W Metal Oxide	AA
R905	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R906	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R907	VRS-CZ1JF822J		8.2k 1/16W Metal Oxide	AA
R909	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R911	VRS-CZ1JF104D		100k 1/16W Metal Oxide	AB
R912	VRS-CZ1JF103D		10k 1/16W Metal Oxide	AB
R913	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R914	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R915	VRS-CZ1JF183D		18k 1/16W Metal Oxide	AB
R916	VRS-CZ1JF563J		56k 1/16W Metal Oxide	AA
R917	VRS-CZ1JF363J		36k 1/16W Metal Oxide	AA
R919	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R921	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R922	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R925	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R926	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R930	VRS-CZ1JF333J		33k 1/16W Metal Oxide	AA
R931	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R932	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R933	VRS-CZ1JF683J		68k 1/16W Metal Oxide	AA
R934	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R935	VRS-CZ1JF183J		18k 1/16W Metal Oxide	AA
R936	VRS-CZ1JF333J		33k 1/16W Metal Oxide	AA
R937	VRS-CZ1JF333J		33k 1/16W Metal Oxide	AA
R938	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R939	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R940	VRS-CZ1JF153D		15k 1/16W Metal Oxide	AB
R941	VRS-CZ1JF103D		10k 1/16W Metal Oxide	AB
R942	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R943	VRS-CZ1JF303D		30k 1/16W Metal Oxide	AA
R946	VRS-CZ1JF103D		10k 1/16W Metal Oxide	AB
R947	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R948	VRS-CZ1JF273D		27k 1/16W Metal Oxide	AA
R949	VRS-CZ1JF222D		2.2k 1/16W Metal Oxide	AA
R950	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R951	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R952	VRS-CZ1JF223D		22k 1/16W Metal Oxide	AB
R953	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R954	VRS-CZ1JF333D		33k 1/16W Metal Oxide	AB
R957	VRS-CZ1JF333D		33k 1/16W Metal Oxide	AB
R958	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R959	VRS-CZ1JF153D		15k 1/16W Metal Oxide	AB
R960	VRS-CZ1JF331D		330 1/16W Metal Oxide	AA
R961	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R964	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R965	VRS-CZ1JF122D		1.2k 1/16W Metal Oxide	AB
R966	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R968	VRS-CZ1JF222D		2.2k 1/16W Metal Oxide	AA
R969	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R970	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R972	VRS-CZ1JF133D		13k 1/16W Metal Oxide	AA
R973	VRS-CZ1JF561J		560 1/16W Metal Oxide	AA
R974	VRS-CZ1JF102D		1k 1/16W Metal Oxide	AA
R975	VRS-CZ1JF331J		330 1/16W Metal Oxide	AA
R976	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R977	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R978	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R979	VRS-CZ1JF104D		100k 1/16W Metal Oxide	AB
R980	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R982	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R983	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R984	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R987	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R988	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R989	VRS-TV1JD000J		0 1/16W Metal Oxide	AA
R990	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R991	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R992	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R993	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R994	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R995	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R996	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R998	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R999	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R1201	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1401	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1402	VRS-CZ1JF470J		47 1/16W Metal Oxide	AA
R1403	VRS-CZ1JF470J		47 1/16W Metal Oxide	AA
R1404	VRS-CZ1JF270J		27 1/16W Metal Oxide	AA
R1408	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R1413	VRS-CZ1JF470J		47 1/16W Metal Oxide	AA
R1414	VRS-CZ1JF270J		27 1/16W Metal Oxide	AA
R1415	VRS-CZ1JF225J		2.2M 1/16W Metal Oxide	AA
R1417	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1419	VRS-CZ1JF270J		27 1/16W Metal Oxide	AA
R1431	VRS-CZ1JF122J		1.2k 1/16W Metal Oxide	AA
R1438	VRS-CZ1JF122J		1.2k 1/16W Metal Oxide	AA
R1439	VRS-CZ1JF272J		2.7k 1/16W Metal Oxide	AA
R1440	VRS-CZ1JF561J		560 1/16W Metal Oxide	AA
R1441	VRS-CZ1JF561J		560 1/16W Metal Oxide	AA
R1442	VRS-CZ1JF750J		75 1/16W Metal Oxide	AA
R1451	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R1452	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R1453	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R1454	VRS-CZ1JF123J		12k 1/16W Metal Oxide	AA
R1462	VRS-CZ1JF104D		100k 1/16W Metal Oxide	AB
R1471	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1472	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1475	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1476	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1480	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1481	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1602	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1603	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1604	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1610	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1662	VRS-CY1JF000J		0 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R1701	VRK-SA1JF100J		10 1/16W Metal Composition	AB
R1702	VRK-SA1JF182J		1.8k 1/16W Metal Composition	AC
R1703	VRK-SA1JF182J		1.8k 1/16W Metal Composition	AC
R1704	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R1705	VRS-CZ1JF154J		150k 1/16W Metal Oxide	AA
R1706	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R1707	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R1708	VRS-CZ1JF1R0J		1 1/16W Metal Oxide	AA
R1709	VRS-CZ1JF1R0J		1 1/16W Metal Oxide	AA
R1710	VRS-CZ1JF1R0J		1 1/16W Metal Oxide	AA
R1711	VRS-CZ1JF1R0J		1 1/16W Metal Oxide	AA
R1712	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R1713	VRS-CZ1JF331J		330 1/16W Metal Oxide	AA
R1714	VRS-CZ1JF621J		620 1/16W Metal Oxide	AA
R1715	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R1716	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R1717	VRS-CZ1JF330J		33 1/16W Metal Oxide	AA
R1718	VRK-SA1JF102J		1k 1/16W Metal Composition	AB
R1719	VRK-SA1JF103J		10k 1/16W Metal Composition	AB
R1720	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1721	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1722	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R1728	VRS-CZ1JF330J		33 1/16W Metal Oxide	AA
R1900	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R1904	VRS-CZ1JF472J		4.7k 1/16W Metal Oxide	AA
R1905	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide	AA
R1909	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide	AA
R1910	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide	AA
R1912	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1913	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R1914	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R1915	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1916	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R1918	VRS-CZ1JF682J		6.8k 1/16W Metal Oxide	AA
R1919	VRS-CZ1JF563D		56k 1/16W Metal Oxide	AA
R1920	VRS-CZ1JF102D		1k 1/16W Metal Oxide	AA
R1921	VRS-CZ1JF153D		15k 1/16W Metal Oxide	AB
R1922	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R1924	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1925	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R1927	VRS-CZ1JF682J		6.8k 1/16W Metal Oxide	AA
R1929	VRS-CZ1JF393D		39k 1/16W Metal Oxide	AB
R1930	VRS-CZ1JF182D		1.8k 1/16W Metal Oxide	AB
R1931	VRS-CZ1JF822D		8.2k 1/16W Metal Oxide	AA
R1940	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R1941	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R1943	VRS-CZ1JF333D		33k 1/16W Metal Oxide	AB
R1944	VRS-CZ1JF822D		8.2k 1/16W Metal Oxide	AA
R1945	VRS-CZ1JF183D		18k 1/16W Metal Oxide	AB
R1948	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1949	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1952	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1954	VRS-TV1JD000J		0 1/16W Metal Oxide	AA
R1955	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1967	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R1968	VRS-CZ1JF224J		220k 1/16W Metal Oxide	AA
R1969	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R1972	VRS-CZ1JF474J		470k 1/16W Metal Oxide	AA
R1973	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R1975	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R1976	VRS-CZ1JF474J		470k 1/16W Metal Oxide	AA
R1977	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R1979	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R1980	VRS-CZ1JF224J		220k 1/16W Metal Oxide	AA
R1981	VRS-CZ1JF224J		220k 1/16W Metal Oxide	AA
R1982	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R1983	VRS-CZ1JF224J		220k 1/16W Metal Oxide	AA
R1984	VRS-CZ1JF333J		33k 1/16W Metal Oxide	AA
R1985	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R1986	VRS-CZ1JF273J		27k 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R1987	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R1988	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R1989	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R1990	VRS-CZ1JF823J		82k 1/16W Metal Oxide	AA
R1991	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R1993	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1994	VRS-CZ1JF561D		560 1/16W Metal Oxide	AA
R1996	VRS-CZ1JF122D		1.2k 1/16W Metal Oxide	AB
R1997	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R2501	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R2502	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R2503	VRS-CY1JF5R6J		5.6 1/16W Metal Oxide	AA
R2504	VRS-CY1JF5R6J		5.6 1/16W Metal Oxide	AA
R2505	VRS-CY1JF5R6J		5.6 1/16W Metal Oxide	AA
R2506	VRS-CY1JF5R6J		5.6 1/16W Metal Oxide	AA
R2507	VRS-CZ1JF622D		6.2k 1/16W Metal Oxide	AA
R2508	VRS-CZ1JF104D		100k 1/16W Metal Oxide	AB
R2509	VRS-CZ1JF822D		8.2k 1/16W Metal Oxide	AA
R2510	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R2511	VRS-CZ1JF153D		15k 1/16W Metal Oxide	AB
R2512	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R2513	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R2514	VRS-CZ1JF154J		150k 1/16W Metal Oxide	AA
R2515	VRS-CZ1JF562J		5.6k 1/16W Metal Oxide	AA
R2516	VRS-CZ1JF472J∗		4.7k 1/16W Metal Oxide	AA
R2517	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R2518	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R2519	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide	AA
R2520	VRS-CZ1JF474J		470k 1/16W Metal Oxide	AA
R2521	VRS-CZ1JF122J		1.2k 1/16W Metal Oxide	AA
R2522	VRS-CZ1JF472J		4.7k 1/16W Metal Oxide	AA
R2523	VRS-CZ1JF181J		180 1/16W Metal Oxide	AA
R2524	VRS-CZ1JF181J		180 1/16W Metal Oxide	AA
R2525	VRS-CZ1JF472J		4.7k 1/16W Metal Oxide	AA
R2526	VRS-CZ1JF682J		6.8k 1/16W Metal Oxide	AA
R2527	VRS-CZ1JF682J		6.8k 1/16W Metal Oxide	AA
R2528	VRS-CZ1JF474J		470k 1/16W Metal Oxide	AA
R2529	VRS-CZ1JF682J		6.8k 1/16W Metal Oxide	AA
R2530	VRS-CZ1JF471J		470 1/16W Metal Oxide	AA
R2531	VRS-CZ1JF180J		18 1/16W Metal Oxide	AA
R2532	VRS-CZ1JF152J		1.5k 1/16W Metal Oxide	AA
R2533	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide	AA
R2534	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R2581	VRS-CZ1JF180J		18 1/16W Metal Oxide	AA
R2582	VRS-CZ1JF682J		6.8k 1/16W Metal Oxide	AA
R2583	VRS-CZ1JF472J		4.7k 1/16W Metal Oxide	AA
R2584	VRS-CZ1JF622D		6.2k 1/16W Metal Oxide	AA
R2585	VRS-CZ1JF104D		100k 1/16W Metal Oxide	AB
R2586	VRS-CZ1JF103D		10k 1/16W Metal Oxide	AB
R2587	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R2588	VRS-CZ1JF153D		15k 1/16W Metal Oxide	AB
R2589	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R2590	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R2592	VRS-CZ1JF154J		150k 1/16W Metal Oxide	AA
R2593	VRS-CZ1JF562J		5.6k 1/16W Metal Oxide	AA
R2594	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R2604	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide	AA
R2605	VRS-CZ1JF474J		470k 1/16W Metal Oxide	AA
R2606	VRS-CZ1JF122J		1.2k 1/16W Metal Oxide	AA
R2610	VRS-CZ1JF472J		4.7k 1/16W Metal Oxide	AA
R2615	VRS-CZ1JF682J		6.8k 1/16W Metal Oxide	AA
R2616	VRS-CZ1JF474J		470k 1/16W Metal Oxide	AA
R2617	VRS-CZ1JF682J		6.8k 1/16W Metal Oxide	AA
R2623	VRS-CZ1JF471J		470 1/16W Metal Oxide	AA
R3401	VRS-CZ1JF181J		180 1/16W Metal Oxide	AA
R3402	VRS-CY1JF000J		0 1/16W Metal Oxide	AA
R3404	VRS-CZ1JF181J		180 1/16W Metal Oxide	AA
R3406	VRS-CZ1JF562J		5.6k 1/16W Metal Oxide	AA
R3407	VRS-CZ1JF101J		100 1/16W Metal Oxide	AA
R3409	VRS-CZ1JF121J		120 1/16W Metal Oxide	AA
R3410	VRS-CZ1JF151J		150 1/16W Metal Oxide	AA
R3411	VRS-CZ1JF391J		390 1/16W Metal Oxide	AA
R3412	VRS-CZ1JF221J		220 1/16W Metal Oxide	AA
R3413	VRS-CZ1JF391J		390 1/16W Metal Oxide	AA
R3414	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R3415	VRS-CZ1JF151J		150 1/16W Metal Oxide	AA
R3416	VRS-CZ1JF221J		220 1/16W Metal Oxide	AA
R3417	VRS-CZ1JF221J		220 1/16W Metal Oxide	AA
R3418	VRS-CZ1JF181J		180 1/16W Metal Oxide	AA
R3419	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R3420	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R3421	VRS-CZ1JF183J		18k 1/16W Metal Oxide	AA
R3422	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R3423	VRS-CZ1JF182J		1.8k 1/16W Metal Oxide	AA
R3424	VRS-CZ1JF151J		150 1/16W Metal Oxide	AA
R3425	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide	AA
R3426	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R3427	VRS-CZ1JF122J		1.2k 1/16W Metal Oxide	AA
R3428	VRS-CZ1JF273D		27k 1/16W Metal Oxide	AA
R3429	VRS-CZ1JF101J		100 1/16W Metal Oxide	AA
R3430	VRS-CZ1JF123J		12k 1/16W Metal Oxide	AA
R3432	VRS-CZ1JF333D		33k 1/16W Metal Oxide	AB
R3434	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R3435	VRS-CZ1JF122J		1.2k 1/16W Metal Oxide	AA
R3436	VRS-CZ1JF182J		1.8k 1/16W Metal Oxide	AA
R3437	VRS-CZ1JF472J		4.7k 1/16W Metal Oxide	AA
R3442	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R3443	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide	AA
R3445	VRS-CZ1JF182D		1.8k 1/16W Metal Oxide	AB
R3446	VRS-CZ1JF103D		10k 1/16W Metal Oxide	AB
R3447	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R3449	VRS-CZ1JF392J		3.9k 1/16W Metal Oxide	AA
R3450	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R3451	VRS-CZ1JF334J		330k 1/16W Metal Oxide	AA
R3452	VRS-CZ1JF820J		82 1/16W Metal Oxide	AA
R3453	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R3454	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R3457	VRS-CZ1JF820J		82 1/16W Metal Oxide	AA
R3462	VRS-CZ1JF271J		270 1/16W Metal Oxide	AA
R3463	VRS-CZ1JF122J		1.2k 1/16W Metal Oxide	AA
R3468	VRS-CZ1JF100J		10 1/16W Metal Oxide	AA
R3469	VRS-CZ1JF390J		39 1/16W Metal Oxide	AA
R3470	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R3471	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide	AA
R3472	VRS-CZ1JF472J		4.7k 1/16W Metal Oxide	AA
R3473	VRS-CZ1JF472J		4.7k 1/16W Metal Oxide	AA
R3474	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R3478	VRS-CZ1JF123J		12k 1/16W Metal Oxide	AA
R3479	VRS-CZ1JF183J		18k 1/16W Metal Oxide	AA
R3480	VRS-CZ1JF681J		680 1/16W Metal Oxide	AA
R3481	VRS-CZ1JF680J		68 1/16W Metal Oxide	AB
R3482	VRS-CZ1JF562J		5.6k 1/16W Metal Oxide	AA
R3486	VRS-CZ1JF152D		1.5k 1/16W Metal Oxide	AB
R3487	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R3488	VRS-CZ1JF681D		680 1/16W Metal Oxide	AB
R3489	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R3490	VRS-CZ1JF392J		3.9k 1/16W Metal Oxide	AA
R3492	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R3493	VRS-CZ1JF272J		2.7k 1/16W Metal Oxide	AA
R3494	VRS-CZ1JF182J		1.8k 1/16W Metal Oxide	AA
R3495	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R3496	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R3499	VRS-CY1JF000J		0 1/16W Metal Oxide	AA
R4401	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R4402	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R4403	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R4404	VRS-CZ1JF151J		150 1/16W Metal Oxide	AA
R4405	VRS-CZ1JF272J		2.7k 1/16W Metal Oxide	AA
R4406	VRS-CZ1JF151J		150 1/16W Metal Oxide	AA
R4407	VRS-CZ1JF272J		2.7k 1/16W Metal Oxide	AA
R4408	VRS-CZ1JF221J		220 1/16W Metal Oxide	AA
R4409	VRS-CZ1JF272J		2.7k 1/16W Metal Oxide	AA
R4410	VRS-CZ1JF121J		120 1/16W Metal Oxide	AA
R4411	VRS-CZ1JF272J		2.7k 1/16W Metal Oxide	AA
R4412	VRS-CZ1JF121J		120 1/16W Metal Oxide	AA
R4413	VRS-CZ1JF272J		2.7k 1/16W Metal Oxide	AA
R4414	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R4415	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R4416	VRS-CZ1JF393J		39k 1/16W Metal Oxide	AA
R4417	VRS-CZ1JF273J		27k 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R4418	VRS-CZ1JF393J		39k 1/16W Metal Oxide	AA
R4419	VRS-CZ1JF273J		27k 1/16W Metal Oxide	AA
R4420	VRS-CZ1JF393J		39k 1/16W Metal Oxide	AA
R4421	VRS-CZ1JF273J		27k 1/16W Metal Oxide	AA
R4422	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R4423	VRS-CZ1JF123J		12k 1/16W Metal Oxide	AA
R4424	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R4425	VRS-CZ1JF123J		12k 1/16W Metal Oxide	AA
R4426	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R4427	VRS-CZ1JF823J		82k 1/16W Metal Oxide	AA
R4428	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R4429	VRS-CZ1JF823J		82k 1/16W Metal Oxide	AA
R4430	VRS-CZ1JF823J		82k 1/16W Metal Oxide	AA
R4435	VRS-CZ1JF330J		33 1/16W Metal Oxide	AA
R4436	VRS-CZ1JF152J		1.5k 1/16W Metal Oxide	AA
R4437	VRS-CZ1JF152J		1.5k 1/16W Metal Oxide	AA
R4440	VRS-CZ1JF330J		33 1/16W Metal Oxide	AA
R4441	VRS-CZ1JF152J		1.5k 1/16W Metal Oxide	AA
R4442	VRS-CZ1JF152J		1.5k 1/16W Metal Oxide	AA
R4443	VRS-CZ1JF152J		1.5k 1/16W Metal Oxide	AA
R4451	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R4453	VRS-CZ1JF181J		180 1/16W Metal Oxide	AA
R4454	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R4456	VRS-CZ1JF151J		150 1/16W Metal Oxide	AA
R4460	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R4461	VRS-CZ1JF123D		12k 1/16W Metal Oxide	AA
R4462	VRS-CZ1JF123D		12k 1/16W Metal Oxide	AA
R4463	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R4464	VRS-CZ1JF472J		4.7k 1/16W Metal Oxide	AA
R4465	VRS-CZ1JF273D		27k 1/16W Metal Oxide	AA
R4467	VRS-CZ1JF302D		3k 1/16W Metal Oxide	AA
R4468	VRS-CZ1JF562D		5.6k 1/16W Metal Oxide	AB
R4469	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R4473	VRS-CZ1JF123J		12k 1/16W Metal Oxide	AA
R4474	VRS-CZ1JF183J		18k 1/16W Metal Oxide	AA
R4475	VRS-CZ1JF272J		2.7k 1/16W Metal Oxide	AA
R4477	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R4478	VRS-CZ1JF472J		4.7k 1/16W Metal Oxide	AA
R4485	VRS-CZ1JF474J		470k 1/16W Metal Oxide	AA
R4486	VRS-CZ1JF224J		220k 1/16W Metal Oxide	AA
R4487	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R4488	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R4490	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R4494	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R4495	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R4496	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R4497	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R4499	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R6601	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R6602	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R6603	VRS-CZ1JF154J		150k 1/16W Metal Oxide	AA
R6604	VRS-CZ1JF154J		150k 1/16W Metal Oxide	AA
R6606	VRS-CZ1JF472J		4.7k 1/16W Metal Oxide	AA
R6607	VRS-CZ1JF682J		6.8k 1/16W Metal Oxide	AA
R6610	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R6611	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R6612	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide	AA
R6614	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R6615	VRS-CZ1JF562J		5.6k 1/16W Metal Oxide	AA
R6616	VRS-CZ1JF682J		6.8k 1/16W Metal Oxide	AA
R6617	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R6618	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R6619	VRS-CZ1JF822J		8.2k 1/16W Metal Oxide	AA
R6620	VRS-CZ1JF333J		33k 1/16W Metal Oxide	AA
R6621	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R6622	VRS-CZ1JF123J		12k 1/16W Metal Oxide	AA
R6623	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R6624	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R6625	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R6626	VRS-CZ1JF184J		180k 1/16W Metal Oxide	AA
R6627	VRS-CZ1JF473J		47k 1/16W Metal Oxide	AA
R6628	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R6629	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R6630	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide	AA
R6632	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R6633	VRS-CZ1JF562J		5.6k 1/16W Metal Oxide	AA
R6634	VRS-CZ1JF682J		6.8k 1/16W Metal Oxide	AA
R6635	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R6636	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R6637	VRS-CZ1JF822J		8.2k 1/16W Metal Oxide	AA
R6638	VRS-CZ1JF333J		33k 1/16W Metal Oxide	AA
R6639	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R6640	VRS-CZ1JF123J		12k 1/16W Metal Oxide	AA
R6641	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R6642	VRS-CZ1JF333J		33k 1/16W Metal Oxide	AA
R6643	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R6644	VRS-CZ1JF473J		47k 1/16W Metal Oxide	AA
R6645	VRS-CZ1JF473J		47k 1/16W Metal Oxide	AA
R6646	VRS-CZ1JF472J		4.7k 1/16W Metal Oxide	AA
R6647	VRS-CZ1JF123J		12k 1/16W Metal Oxide	AA
R6648	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R6649	VRS-CZ1JF512J		5.1k 1/16W Metal Oxide	AB
R6650	VRS-CZ1JF473J		47k 1/16W Metal Oxide	AA
R6651	VRS-CZ1JF473J		47k 1/16W Metal Oxide	AA
R6655	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide	AA
R6656	VRS-CZ1JF824J		820k 1/16W Metal Oxide	AA
R6657	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R6658	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R6659	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R6660	VRS-CZ1JF682J		6.8k 1/16W Metal Oxide	AA
R6661	VRS-CZ1JF154J		150k 1/16W Metal Oxide	AA
R6662	VRS-CZ1JF154J		150k 1/16W Metal Oxide	AA
R6663	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R6665	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R6681	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R6682	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R6683	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R6684	VRS-CZ1JF563J		56k 1/16W Metal Oxide	AA
R6685	VRS-CZ1JF392J		3.9k 1/16W Metal Oxide	AA
R6686	VRS-CZ1JF272J		2.7k 1/16W Metal Oxide	AA
R6687	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide	AA
R6688	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R7401	VRS-CZ1JF561J		560 1/16W Metal Oxide	AA
R7402	VRS-CZ1JF472J		4.7k 1/16W Metal Oxide	AA
R7403	VRS-CZ1JF273J		27k 1/16W Metal Oxide	AA
R7410	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7413	VRS-CZ1JF512D		5.1k 1/16W Metal Oxide	AA
R7415	VRS-CZ1JF560D		56 1/16W Metal Oxide	AB
R7416	VRS-CZ1JF560D		56 1/16W Metal Oxide	AB
R7417	VRS-CZ1JF560D		56 1/16W Metal Oxide	AB
R7418	VRS-CZ1JF560D		56 1/16W Metal Oxide	AB
R7419	VRS-CZ1JF221J		220 1/16W Metal Oxide	AA
R7420	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R7422	VRS-CZ1JF392D		3.9k 1/16W Metal Oxide	AB
R7423	VRS-CZ1JF392D		3.9k 1/16W Metal Oxide	AB
R7424	VRS-CZ1JF242D		2.4k 1/16W Metal Oxide	AA
R7800	VRS-CZ1JF472J		4.7k 1/16W Metal Oxide	AA
R7801	VRS-CZ1JF472J		4.7k 1/16W Metal Oxide	AA
R7802	VRS-CZ1JF330J		33 1/16W Metal Oxide	AA
R7803	VRS-CZ1JF330J		33 1/16W Metal Oxide	AA
R7813	VRS-CZ1JF101J		100 1/16W Metal Oxide	AA
R7814	VRS-CZ1JF101J		100 1/16W Metal Oxide	AA
R7820	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7821	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R7822	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7823	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R7824	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7827	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7828	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7830	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7831	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R7832	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7833	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R7836	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7837	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7840	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7841	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R7842	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7843	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R7846	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R7847	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7849	VRS-CZ1JF102D		1k 1/16W Metal Oxide	AA
R7850	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R7851	VRS-CZ1JF102D		1k 1/16W Metal Oxide	AA
R7852	VRS-CZ1JF102D		1k 1/16W Metal Oxide	AA
R7853	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7859	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7860	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7862	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7863	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R7865	VRS-CZ1JF473J		47k 1/16W Metal Oxide	AA
R7890	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7891	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7892	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R7893	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R8803	VRS-CZ1JF271J		270 1/16W Metal Oxide	AA
R8804	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R8805	VRS-CZ1JF333D		33k 1/16W Metal Oxide	AB
R8807	VRS-CZ1JF392J		3.9k 1/16W Metal Oxide	AA
R8808	VRS-CZ1JF392J		3.9k 1/16W Metal Oxide	AA
R8809	VRS-CZ1JF392J		3.9k 1/16W Metal Oxide	AA
R8810	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R8811	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R8812	VRS-CZ1JF333J		33k 1/16W Metal Oxide	AA
R8813	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R8816	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R8818	VRS-CZ1JF823D		82k 1/16W Metal Oxide	AB
R8819	VRS-CZ1JF274J		270k 1/16W Metal Oxide	AA
R8820	VRS-CZ1JF473D		47k 1/16W Metal Oxide	AB
R8827	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R8846	VRS-CZ1JF100J		10 1/16W Metal Oxide	AA
R8847	VRS-CZ1JF100J		10 1/16W Metal Oxide	AA
R8848	VRS-CZ1JF100J		10 1/16W Metal Oxide	AA
R8850	VRS-CZ1JF682J		6.8k 1/16W Metal Oxide	AA
R8851	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA

BALUNES

FB201	RBLN-0049TAZZ	Balun, BLN-0049TA	AD
FB203	RBLN-0049TAZZ	Balun, BLN-0049TA	AD
FB204	RBLN-0049TAZZ	Balun, BLN-0049TA	AD
FB456	RBLN-0119TAZZ	Balun, BLN-0119TA	AC
FB900	RBLN-0119TAZZ	Balun, BLN-0119TA	AC
FB901	RBLN-0119TAZZ	Balun, BLN-0119TA	AC
FB7401	RBLN-0119TAZZ	Balun, BLN-0119TA	AC
FB8800	RBLN-0119TAZZ	Balun, BLN-0119TA	AC
FB8802	RBLN-0119TAZZ	Balun, BLN-0119TA	AC

MISCELLANEOUS PARTS

	PZETE0038TAZZ	Insulator	AC
P6601	QPLGN0474TAZZ	Plug, 4Pin	AD
SC201	QCNCW4080TAZZ	Connector, 40Pin	AF
SC701	QSOCN1098TAZZ	Socket, 10Pin	AE
SC703	QSOCN1098TAZZ	Socket, 10Pin	AE
SC702	QSOCN0425TAN1	Socket, 4Pin	AD
SC900	QCNCW2080TAZZ	Connector, 20Pin	AF
SC1402	QSOCN2128TAN1∗	Socket, 21Pin	AE
SC2501	QSOCN1711TAN1∗	Socket, 17Pin	AF
SC2503	QSOCN1298TAZZ∗	Socket, 12Pin	AE
SC3301	QCNCW8080TAZZ	Connector, 80Pin	AH
SC5701	QCNCW8080TAZZ	Connector, 80Pin	AH
SC6602	QSOCN1598TAZZ∗	Socket, 15Pin	AE
SC7800	QCNCW1083TAZZ	Connector, 10Pin	AE
SC7801	QCNCW4080TAZZ	Connector, 40Pin	AF
SC8801	QSOCN2225TAN1	Socket, 22Pin	AF

DUNTK3097QA00
CAMERA HEAD PWB UNIT

INTEGRATED CIRCUITS

IC21	VHiCXD3602R-1∗	CXD3602R, Timing Generator	AX
IC101	VHiHD49325H-1Q	HD49325H, CDA. A/D	AX
IC1001	VHiNJM2904V-1	NJM2904V, Op-Amp	AF
IC1002	VHiNJM2112V-1	NJM2112V, Op-Amp	AF
IC1004	VHiTC7W66U/-1	TC7W66U, Analog SW	AE

TRANSISTOR

Q21	VSCPH3206//-1	CPH3206	AD

PACKAGED CIRCUIT

X21	RCRSZ0083TAZZ	Crystal, CRSZ0083TA	AS

COILS

L23	VPCEM100MR70N	Peaking, 10µH	AC
L101	VPAWM100K1R5N	Peaking, 10µH	AC
L102	VPAWM100K1R5N	Peaking, 10µH	AC
L1001	VPABM220J4R1N	Peaking, 22µH	AC

CAPACITORS

C21	VCSATE1CJ226M	22	16V	Tantalum	AE
C22	VCSATJ1VJ685M	6.8	35V	Tantalum	AE
C23	VCSATA1AJ106M	10	10V	Tantalum	AC
C24	VCKYCZ1CB103K	0.01	16V	Ceramic	AB
C25	VCKYCZ1CB103K	0.01	16V	Ceramic	AB
C26	VCSATA1AJ106M	10	10V	Tantalum	AC
C27	VCKYCZ1CB103K	0.01	16V	Ceramic	AB
C28	VCKYCZ1CB103K	0.01	16V	Ceramic	AB
C30	VCKYCZ1HF103Z	0.01	50V	Ceramic	AB
C32	VCKYCZ1CB103K	0.01	16V	Ceramic	AB
C33	VCKYCZ1CB103K	0.01	16V	Ceramic	AB
C34	VCKYCZ1HB102K	1000p	50V	Ceramic	AB
C36	VCKYCZ1HB102K	1000p	50V	Ceramic	AB
C37	VCSAPR0JJ106M	10	6.3V	Tantalum	AD
C101	VCKYCY1CB104K	0.1	16V	Ceramic	AB
C102	VCKYCZ1CB153K	0.015	16V	Ceramic	AB
C103	VCKYCY0JB105K	1	6.3V	Ceramic	AC
C104	VCKYCZ1AB104K	0.1	10V	Ceramic	AB
C105	VCKYCZ1AF104Z	0.1	10V	Ceramic	AB
C106	VCKYCY1CB104K	0.1	16V	Ceramic	AB
C111	VCKYCZ1AF104Z	0.1	10V	Ceramic	AB
C112	VCKYCZ1AF104Z	0.1	10V	Ceramic	AB
C114	VCKYCZ1AF104Z	0.1	10V	Ceramic	AB
C115	VCKYCZ1AF104Z	0.1	10V	Ceramic	AB
C116	VCSATA0JJ156M	15	6.3V	Tantalum	AC
C117	VCSATA0JJ156M	15	6.3V	Tantalum	AC
C120	VCKYTV1CB105K	1	16V	Ceramic	AC
C1001	VCSATA0JJ156M	15	6.3V	Tantalum	AC
C1002	VCSATA0JJ156M	15	6.3V	Tantalum	AC
C1003	VCKYCZ1CB223K	0.022	16V	Ceramic	AC
C1004	VCKYCZ1CB223K	0.022	16V	Ceramic	AC
C1005	VCKYCZ1HB332K	3300p	50V	Ceramic	AA
C1006	VCKYCZ1AB473K	0.047	10V	Ceramic	AB
C1007	VCKYCZ1AB473K	0.047	10V	Ceramic	AB
C1008	VCKYCZ1HB332K	3300p	50V	Ceramic	AA
C1009	RC-KZ0099TAZZ	10	6.3V	Ceramic	AD
C1010	RC-KZ0099TAZZ	10	6.3V	Ceramic	AD
C1011	VCCCCZ1HH101J	100p	50V	Ceramic	AB
C1012	VCCCCZ1HH101J	100p	50V	Ceramic	AB
C1013	VCKYCZ1CB223K	0.022	16V	Ceramic	AC
C1014	VCKYCZ1CB223K	0.022	16V	Ceramic	AC
C1016	VCSATA0JJ156M	15	6.3V	Tantalum	AC
C1017	VCKYCZ1HF103Z	0.01	50V	Ceramic	AB
C1018	VCKYCY1CF104Z	0.1	16V	Ceramic	AA

RESISTORS

R21	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R23	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R24	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R26	VRS-CZ1JF104J	100k	1/16W Metal Oxide	AA
R27	VRS-CZ1JF122J	1.2k	1/16W Metal Oxide	AA
R28	VRS-CZ1JF822J	8.2k	1/16W Metal Oxide	AA
R29	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R30	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R31	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R32	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R33	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA
R34	VRS-CZ1JF000J	0	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R35	VRS-CZ1JF331J		330 1/16W Metal Oxide	AA
R37	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R39	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R103	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R105	VRS-CZ1JF220J		22 1/16W Metal Oxide	AA
R106	VRS-CZ1JF220J		22 1/16W Metal Oxide	AA
R107	VRS-CZ1JF220J		22 1/16W Metal Oxide	AA
R108	VRS-CZ1JF220J		22 1/16W Metal Oxide	AA
R109	VRS-CZ1JF220J		22 1/16W Metal Oxide	AA
R110	VRS-CZ1JF220J		22 1/16W Metal Oxide	AA
R111	VRS-CZ1JF220J		22 1/16W Metal Oxide	AA
R112	VRS-CZ1JF220J		22 1/16W Metal Oxide	AA
R113	VRS-CZ1JF220J		22 1/16W Metal Oxide	AA
R114	VRS-CZ1JF220J		22 1/16W Metal Oxide	AA
R115	VRS-CZ1JF243J		24k 1/16W Metal Oxide	AA
R116	VRS-CZ1JF220J		22 1/16W Metal Oxide	AA
R119	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1001	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R1002	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R1003	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R1004	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R1005	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R1006	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R1007	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R1008	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R1009	VRS-CZ1JF154J		150k 1/16W Metal Oxide	AA
R1010	VRS-CZ1JF154J		150k 1/16W Metal Oxide	AA
R1011	VRS-CZ1JF274J		270k 1/16W Metal Oxide	AA
R1012	VRS-CZ1JF274J		270k 1/16W Metal Oxide	AA
R1013	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R1014	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R1015	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R1016	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R1017	VRS-CZ1JF154J		150k 1/16W Metal Oxide	AA
R1018	VRS-CZ1JF154J		150k 1/16W Metal Oxide	AA
R1019	VRS-CZ1JF000J∗		0 1/16W Metal Oxide	AA
R1020	VRS-CZ1JF000J∗		0 1/16W Metal Oxide	AA
R1021	VRS-CZ1JF000J∗		0 1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

FB22	RBLN-0051TAZZ	Balun, BLN-0051TA	AC
R22	RBLN-0242TAZZ∗	Balun, BLN-0242TA	AB
SC21	QSOCN1792TAZZ∗	Socket, 17Pin	AE
SC1001	QSOCN0424TAN1	Socket, 4Pin	AD
SC1002	QSOCN3928TAN1	Socket, 39Pin	AF
RMC1001	RSNSG0013CEZZ	Gyro Sensor	AX
RMC1002	RSNSG0012CEZZ	Gyro Sensor	AX

DUNTK2986QA02
CARD PWB UNIT

INTEGRATED CIRCUITS

IC3701	RH-iX0903TAZZQ	IX0903TA, Card Micon	AZ
IC3702	RH-iX3272CEZZ	IX3272CE, 16Mbit DRAM	AX

TRANSISTOR

Q3701	VSHN2C01FU/-1	HN2C01FU	AC

COILS

FL3701	RFiLC0168TAZZ	Filter, FiLC0168TA	AF
L3701	VPMAN100MR50N	Peaking, 10µH	AC

CAPACITORS

C3701	VCKYTV1AB105K	1	10V	Ceramic	AD
C3702	VCKYCZ1AF104Z	0.1	10V	Ceramic	AB
C3703	VCKYCZ1AF104Z	0.1	10V	Ceramic	AB
C3704	VCKYCZ1AF104Z	0.1	10V	Ceramic	AB
C3705	VCKYCZ1AF104Z	0.1	10V	Ceramic	AB
C3706	VCKYCZ1AF104Z	0.1	10V	Ceramic	AB
C3707	VCKYCZ1HB102K	1000p	50V	Ceramic	AB
C3708	VCKYCZ1AF104Z	0.1	10V	Ceramic	AB
C3709	VCSATA0JJ106M	10	6.3V	Tantalum	AD
C3710	VCKYCZ1CB103K	0.01	16V	Ceramic	AB
C3711	VCKYCZ1CB103K	0.01	16V	Ceramic	AB
C3712	VCKYCZ1HB102K	1000p	50V	Ceramic	AB
C3713	VCKYTV1AB105K	1	10V	Ceramic	AD

RESISTORS

R3701	VRS-CZ1JF563J	56k	1/16W	Metal Oxide	AA
R3702	VRS-CZ1JF563J	56k	1/16W	Metal Oxide	AA
R3705	VRS-CZ1JF473J	47k	1/16W	Metal Oxide	AA
R3706	VRS-CZ1JF104J	100k	1/16W	Metal Oxide	AA
R3707	VRS-CZ1JF122J	1.2k	1/16W	Metal Oxide	AA
R3710	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3711	VRS-CZ1JF332J	3.3k	1/16W	Metal Oxide	AA
R3713	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3714	VRS-CZ1JF102J	1k	1/16W	Metal Oxide	AA
R3715	VRS-CZ1JF103J	10k	1/16W	Metal Oxide	AA
R3716	VRS-CZ1JF101J	100	1/16W	Metal Oxide	AA
R3751	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3752	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3753	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3754	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3755	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3756	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3757	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3758	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3759	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3760	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3761	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3762	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3763	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3764	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3765	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3766	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3767	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3768	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3769	VRS-CZ1JF472J	4.7k	1/16W	Metal Oxide	AA
R3770	VRS-CZ1JF472J	4.7k	1/16W	Metal Oxide	AA
R3771	VRS-CZ1JF101J	100	1/16W	Metal Oxide	AA
R3772	VRS-CZ1JF472J	4.7k	1/16W	Metal Oxide	AA
R3773	VRS-CZ1JF472J	4.7k	1/16W	Metal Oxide	AA
R3774	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA
R3776	VRS-CZ1JF563J	56k	1/16W	Metal Oxide	AA
R3777	VRS-CZ1JF563J	56k	1/16W	Metal Oxide	AA
R3778	VRS-CZ1JF563J	56k	1/16W	Metal Oxide	AA
R3779	VRS-CZ1JF563J	56k	1/16W	Metal Oxide	AA
R3780	VRS-CZ1JF563J	56k	1/16W	Metal Oxide	AA
R3781	VRS-CZ1JF563J	56k	1/16W	Metal Oxide	AA
R3784	VRS-CZ1JF000J	0	1/16W	Metal Oxide	AA

BALUNE

FB3701	RBLN-0057TAZZ	Balun, BLN-0057TA	AC

SWITCH

SW3701	QSW-P0102TAZZ	Switch	AD

MISCELLANEOUS PARTS

SC3701	QSOCZ0069TAZZ	Socket, 12Pin	AP
SC3702	QSOCN3928TAN1	Socket, 39Pin	AF
SC3703	QSOCN3928TAN1	Socket, 39Pin	AF
SC3704	QSOCN1592TAZZ	Socket, 15Pin	AE
SLD1	PSLDM3359TAFW	Shield	AC

DUNTK2983QA02
LCD PWB UNIT

INTEGRATED CIRCUITS

IC800	VHiiR3Y35M+-1	IR3Y35M+, RGB Driver	AS
IC803	VHiMB8346BV-1	MB8346BV, DAC	AN
IC1802	VHiCXD3515R-1	CXD3515R, LCD Controler	AT
IC3800	VHiBR24C02F-1	BR24C02F, E^{2}PROM	AH
IC3801	RH-iX0869TAZZQ	IX0869TA, Micon	AM

Ref. No.	Part No.	★	Description	Code
IC3803	VHiS80925AN-1		S80925AN, Reset 2.5V	AD
IC8901	VHiRQ5RW28B-1		RQ5RW28B, 2.8V Reg	AE
IC8902	VHiTL1454PW-1		TL1454PW, Switching	AL
IC8903	VHiNJM2143R-1		NJM2143R, Reg	AE
IC8906	VHiTA75S01F-1		TA75S01F, Inv Current Detector	AD
TRANSISTORS				
Q800	VS2SC5383F/-1		2SC5383F	AB
Q802	VS2SC5383F/-1		2SC5383F	AB
Q803	VS2SC5383F/-1		2SC5383F	AB
Q1800	VS3LN01S///-1		3LN01S	AC
Q1801	VSHN1B04FU/-1		HN1B04FU	AC
Q1802	VSHN1B04FU/-1		HN1B04FU	AC
Q1803	VSHN1B04FU/-1		HN1B04FU	AC
Q3800	VSRN1704///-1		RN1704	AC
Q3801	VSRN4990///-1		RN4990	AC
Q3802	VSRN4990///-1		RN4990	AC
Q8901	VSCPH6702++-1		CPH6702++	AD
Q8902	VSCPH3209//-1		CPH3209	AD
Q8903	VS2SB12956/-1		2SB12956	AB
Q8904	VSFMMT717//-1		FMMT717	AE
Q8906	VSNDS332P//-1		NDS332P	AD
Q8908	VSHN1B04FU/-1		HN1B04FU	AC
Q8909	VSHN1B04FU/-1		HN1B04FU	AC
Q8910	VS2SC5383F/-1		2SC5383F	AB
Q8911	VSCPH3209//-1		CPH3209	AD
Q8912	VSCPH3209//-1		CPH3209	AD
DIODES				
D1800	VHDHVU17TRF-1		HVU17TRF	AE
D1801	VHERD2R7UM0-1		Zener, ERD2R7UM0	AB
D8900	RH-EX1393CEZZ		Zener, EX1393CE	AB
D8902	VHDMA729///-1		MA729	AD
PACKAGED CIRCUIT				
TH3800	VHHT1103K44-1		Thermistor	AD
COILS AND TRANSFORMER				
FL3800	RFiLC0066TAZZ		Filter, FiLC0066TA	AE
L801	VPD9M100KR86N		Peaking, 10µH	AC
L802	VPD9M100KR86N		Peaking, 10µH	AC
L1800	VPD9M4R7J1R4N		Peaking, 4.7µH	AB
L1801	VPD9M100KR86N		Peaking, 10µH	AC
L1802	VPD9M100KR86N		Peaking, 10µH	AC
L8900	RCiLP0326TAZZ		Coil, CiLP0326TA	AD
L8901	RCiLP0326TAZZ		Coil, CiLP0326TA	AD
L8902	RCiLP0311TAZZ		Coil, CiLP0311TA	AE
L8903	VPBWM220K1R2N		Peaking, 22µH	AC
L8905	VPMAN100MR50N		Peaking, 10µH	AC
L8906	VPBAM220KR50N		Peaking, 22µH	AC
L8913	RCiLP0313TAZZ		Coil, 33µH	AE
L8914	RCiLP0323TAZZ		Coil, 4.7µH	AD
⚠ T8903	RTRNZ0150TAZZ		Transformer	AL
CAPACITORS				
C801	VCKYCY1AF105Z		1 10V Ceramic	AC
C805	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C806	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C809	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C814	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C816	VCKYTV1AB105K		1 10V Ceramic	AD
C817	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C818	VCKYTV1AB105K		1 10V Ceramic	AD
C819	VCKYTV1AB105K		1 10V Ceramic	AD
C823	VCCCCZ1HH680J		68p 50V Ceramic	AB
C824	VCKYTQ1CB105K		1 16V Ceramic	AC
C825	VCCCCZ1HH181J		180p 50V Ceramic	AB
C828	VCKYCY1CB104K		0.1 16V Ceramic	AB
C829	VCKYCY1CB104K		0.1 16V Ceramic	AB
C830	VCKYCY1CB104K		0.1 16V Ceramic	AB
C831	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C832	VCKYTQ1CB105K		1 16V Ceramic	AC
C833	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C835	VCKYTQ1CB105K		1 16V Ceramic	AC
C836	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C837	VCSATA0JJ336M		33 6.3V Tantalum	AD
C838	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C839	RC-KZ0075TAZZ		2.2 16V Ceramic	AC
C840	VCKYCZ1AB104K		0.1 10V Ceramic	AB
C849	VCCCCZ1HH150J		15p 50V Ceramic	AB
C850	VCCCCZ1HH680J		68p 50V Ceramic	AB
C851	VCCCCZ1HH150J		15p 50V Ceramic	AB
C852	VCCCCZ1HH680J		68p 50V Ceramic	AB
C853	VCCCCZ1HH150J		15p 50V Ceramic	AB
C854	VCCCCZ1HH680J		68p 50V Ceramic	AB
C1801	VCKYCZ1HB332K		3300p 50V Ceramic	AA
C1803	RC-KZ0055TAZZ		3.3 10V Ceramic	AD
C1805	VCKYTV1AB105K		1 10V Ceramic	AD
C1806	VCCCCZ1HH220J		22p 50V Ceramic	AB
C1807	VCKYCZ1HB102K		1000p 50V Ceramic	AB
C1808	VCKYCZ1HB102K		1000p 50V Ceramic	AB
C1809	VCKYTV1AB105K		1 10V Ceramic	AD
C1810	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C1811	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C1812	VCKYTV1AB105K		1 10V Ceramic	AD
C1813	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C1814	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C1815	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C1816	RC-KZ0075TAZZ		2.2 16V Ceramic	AC
C1817	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C1818	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C1820	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C1821	VCKYTQ1CB105K		1 16V Ceramic	AC
C1822	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C1823	VCKYTQ1CB105K		1 16V Ceramic	AC
C1824	VCKYTQ1CB105K		1 16V Ceramic	AC
C3800	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C3802	VCKYCY1AF105Z		1 10V Ceramic	AC
C3803	VCKYCY1AF105Z		1 10V Ceramic	AC
C3804	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C3805	VCCCCZ1HH101J		100p 50V Ceramic	AB
C3807	VCCCCZ1HH101J		100p 50V Ceramic	AB
C3809	VCCCCZ1HH101J		100p 50V Ceramic	AB
C3810	VCCCCZ1HH101J		100p 50V Ceramic	AB
C3815	VCKYCZ1HB102K		1000p 50V Ceramic	AB
C3816	VCKYCZ1HB102K		1000p 50V Ceramic	AB
C3817	VCKYCZ1HB102K		1000p 50V Ceramic	AB
C3818	VCSATA0JJ336M		33 6.3V Tantalum	AD
C8900	VCKYCZ1AF104Z		0.1 10V Ceramic	AB
C8901	VCKYCZ1AF104Z		0.1 10V Ceramic	AB
C8902	VCCCCZ1HH101J		100p 50V Ceramic	AB
C8903	VCKYCY0JB105K		1 6.3V Ceramic	AC
C8904	VCKYCY1CB104K		0.1 16V Ceramic	AB
C8905	VCCCCZ1HH221J		220p 50V Ceramic	AB
C8906	VCKYCY1CB104K		0.1 16V Ceramic	AB
C8907	VCKYCY1CB104K		0.1 16V Ceramic	AB
C8908	VCKYCY1HB102K		1000p 50V Ceramic	AA
C8909	RC-KZ0070TAZZ		4.7 16V Ceramic	AD
C8910	RC-KZ0070TAZZ		4.7 16V Ceramic	AD
C8911	VCKYCZ1HB102K		1000p 50V Ceramic	AB
C8912	VCKYCZ1HB102K		1000p 50V Ceramic	AB
C8913	RC-KZ0044TAZZ		4.7 10V Ceramic	AD
C8914	RC-KZ0075TAZZ		2.2 16V Ceramic	AC
C8915	RC-KZ0075TAZZ		2.2 16V Ceramic	AC
C8917	VCCCCZ1HH101J		100p 50V Ceramic	AB
C8918	RC-KZ0055TAZZ		3.3 10V Ceramic	AD
C8919	VCKYCZ1AB104K		0.1 10V Ceramic	AB
C8929	VCKYTV1CB105K		1 16V Ceramic	AC
C8931	VCKYCZ1AF104Z		0.1 10V Ceramic	AB
C8933	VCCCCZ1HH101J		100p 50V Ceramic	AB
C8934	VCKYCY1AF105Z		1 10V Ceramic	AC
C8935	VCKYCY1AF105Z		1 10V Ceramic	AC
C8936	VCKYCY1AF105Z		1 10V Ceramic	AC
C8937	VCSATA0JJ336M		33 6.3V Tantalum	AD
C8938	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C8949	VCKYCZ1AF104Z		0.1 10V Ceramic	AB
C8950	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C8951	VCKYCZ1CB103K		0.01 16V Ceramic	AB
C8952	VCKYCY1CB104K		0.1 16V Ceramic	AB

Ref. No.	Part No.	★	Description	Code
C8954	VCKYCZ1AF104Z		0.1 10V Ceramic	AB
C8955	RC-CZ0057TAZZ		0.015 25V Ceramic	AD
C8958	VCKYCY1HB332K		3300p 50V Ceramic	AA
C8959	RC-KZ0352CEZZ		22p 3kV Ceramic	AD
C8961	VCKYCY1CB104K		0.1 16V Ceramic	AB
C8963	VCKYCZ1HB102K		1000p 50V Ceramic	AB
			RESISTORS	
R800	VRS-CZ1JF123D		12k 1/16W Metal Oxide	AA
R801	VRS-CZ1JF103D		10k 1/16W Metal Oxide	AB
R802	VRS-CZ1JF473D		47k 1/16W Metal Oxide	AB
R803	VRS-CZ1JF102D		1k 1/16W Metal Oxide	AA
R804	VRS-CZ1JF102D		1k 1/16W Metal Oxide	AA
R805	VRS-CZ1JF101J		100 1/16W Metal Oxide	AA
R806	VRS-CZ1JF101J		100 1/16W Metal Oxide	AA
R811	VRS-CZ1JF473D		47k 1/16W Metal Oxide	AB
R818	VRS-CZ1JF393D		39k 1/16W Metal Oxide	AB
R820	VRS-CZ1JF823D		82k 1/16W Metal Oxide	AB
R823	VRS-CZ1JF473D		47k 1/16W Metal Oxide	AB
R828	VRS-CZ1JF563D		56k 1/16W Metal Oxide	AA
R830	VRS-CZ1JF473D		47k 1/16W Metal Oxide	AB
R833	VRS-CZ1JF473D		47k 1/16W Metal Oxide	AB
R834	VRS-CZ1JF333D		33k 1/16W Metal Oxide	AB
R836	VRS-CZ1JF203D		20k 1/16W Metal Oxide	AA
R837	VRS-CZ1JF153D		15k 1/16W Metal Oxide	AB
R845	VRS-CZ1JF683D		68k 1/16W Metal Oxide	AB
R847	VRS-CZ1JF683D		68k 1/16W Metal Oxide	AB
R850	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R851	VRS-CZ1JF474J		470k 1/16W Metal Oxide	AA
R853	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R854	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide	AA
R857	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R859	VRS-CZ1JF683D		68k 1/16W Metal Oxide	AB
R860	VRS-CZ1JF392D		3.9k 1/16W Metal Oxide	AB
R862	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R866	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R868	VRS-CZ1JF103D		10k 1/16W Metal Oxide	AB
R869	VRS-CZ1JF473D		47k 1/16W Metal Oxide	AB
R870	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R871	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R873	VRS-CZ1JF561J		560 1/16W Metal Oxide	AA
R874	VRS-CZ1JF102D		1k 1/16W Metal Oxide	AA
R875	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R876	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R877	VRS-CZ1JF561J		560 1/16W Metal Oxide	AA
R878	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R879	VRS-CZ1JF102D		1k 1/16W Metal Oxide	AA
R881	VRS-CZ1JF561J		560 1/16W Metal Oxide	AA
R882	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R883	VRS-CZ1JF561J		560 1/16W Metal Oxide	AA
R884	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R885	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R1805	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R1811	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R1813	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R1814	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R1815	VRK-SA1JF564J		560k 1/16W Metal Composition	AC
R1816	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R1817	VRS-CZ1JF333J		33k 1/16W Metal Oxide	AA
R1818	VRS-CZ1JF471J		470 1/16W Metal Oxide	AA
R1820	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R1823	VRS-CZ1JF123D		12k 1/16W Metal Oxide	AA
R1824	VRS-CZ1JF103D		10k 1/16W Metal Oxide	AB
R1825	VRS-CZ1JF393D		39k 1/16W Metal Oxide	AB
R1826	VRS-CZ1JF683D		68k 1/16W Metal Oxide	AB
R1827	VRS-CZ1JF473D		47k 1/16W Metal Oxide	AB
R1828	VRS-CZ1JF563D		56k 1/16W Metal Oxide	AA
R1830	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R1831	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R1832	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R1833	VRS-CZ1JF223D		22k 1/16W Metal Oxide	AB
R1834	VRS-CZ1JF123J		12k 1/16W Metal Oxide	AA
R1835	VRS-CZ1JF473J		47k 1/16W Metal Oxide	AA
R1836	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R1838	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R1840	VRS-CZ1JF100J		10 1/16W Metal Oxide	AA
R1842	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R1843	VRS-CZ1JF100J		10 1/16W Metal Oxide	AA
R1846	VRS-CZ1JF223J		22k 1/16W Metal Oxide	AA
R1847	VRS-CZ1JF100J		10 1/16W Metal Oxide	AA
R1848	VRS-CZ1JF100J		10 1/16W Metal Oxide	AA
R1849	VRS-CZ1JF100J		10 1/16W Metal Oxide	AA
R1851	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R1861	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1862	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1863	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R1864	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R3800	VRK-SA1JF473J		47k 1/16W Metal Composition	AC
R3801	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R3802	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R3803	VRS-CZ1JF474J		470k 1/16W Metal Oxide	AA
R3804	VRS-CZ1JF474J		470k 1/16W Metal Oxide	AA
R3806	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R3807	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R3808	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R3809	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R3810	VRS-CZ1JF103D		10k 1/16W Metal Oxide	AB
R3812	VRS-CZ1JF473J		47k 1/16W Metal Oxide	AA
R3813	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R3814	VRS-CZ1JF153J		15k 1/16W Metal Oxide	AA
R3815	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R3816	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R3817	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R3818	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R3819	VRS-CZ1JF104D		100k 1/16W Metal Oxide	AB
R3822	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R3823	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R3825	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R3826	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R3827	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R3830	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide	AA
R3839	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R3840	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R3841	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R3842	VRS-CZ1JF330J		33 1/16W Metal Oxide	AA
R3843	VRS-CZ1JF330J		33 1/16W Metal Oxide	AA
R8900	VRS-CZ1JF123D		12k 1/16W Metal Oxide	AA
R8902	VRS-CZ1JF562D		5.6k 1/16W Metal Oxide	AB
R8903	VRS-CZ1JF104D		100k 1/16W Metal Oxide	AB
R8904	VRS-CZ1JF682D		6.8k 1/16W Metal Oxide	AB
R8906	VRS-CZ1JF103D		10k 1/16W Metal Oxide	AB
R8907	VRS-CZ1JF393D		39k 1/16W Metal Oxide	AB
R8908	VRS-CZ1JF683D		68k 1/16W Metal Oxide	AB
R8909	VRS-CZ1JF113D		11k 1/16W Metal Oxide	AA
R8910	VRS-CZ1JF471J		470 1/16W Metal Oxide	AA
R8911	VRS-CZ1JF273D		27k 1/16W Metal Oxide	AA
R8912	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R8913	VRS-CZ1JF104J		100k 1/16W Metal Oxide	AA
R8914	VRS-CZ1JF133D		13k 1/16W Metal Oxide	AA
R8915	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R8916	VRS-CZ1JF182J		1.8k 1/16W Metal Oxide	AA
R8917	VRS-CZ1JF562J		5.6k 1/16W Metal Oxide	AA
R8941	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R8942	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R8943	VRS-CZ1JF273D		27k 1/16W Metal Oxide	AA
R8944	VRS-CZ1JF222D		2.2k 1/16W Metal Oxide	AA
R8945	VRS-CZ1JF103D		10k 1/16W Metal Oxide	AB
R8946	VRS-CZ1JF100J		10 1/16W Metal Oxide	AA
R8949	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R8950	VRS-CZ1JF203D		20k 1/16W Metal Oxide	AA
R8951	VRS-CZ1JF222D		2.2k 1/16W Metal Oxide	AA
R8952	VRS-CZ1JF153D		15k 1/16W Metal Oxide	AB
R8959	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R8960	VRS-CZ1JF333J		33k 1/16W Metal Oxide	AA
R8961	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R8970	VRS-CZ1JF105J		1M 1/16W Metal Oxide	AA
R8971	VRS-CZ1JF474J		470k 1/16W Metal Oxide	AA
R8979	VRS-CZ1JF101J		100 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R8980	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R8981	VRS-CZ1JF153D		15k 1/16W Metal Oxide	AB
R8982	VRS-CZ1JF102D		1k 1/16W Metal Oxide	AA
R8983	VRS-CZ1JF182D		1.8k 1/16W Metal Oxide	AB
R8984	VRS-CZ1JF103D		10k 1/16W Metal Oxide	AB
R8985	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R8986	VRS-CY1JFR22J		0.22 1/16W Metal Oxide	AA
R8987	VRS-CZ1JF102D		1k 1/16W Metal Oxide	AA
R8988	VRS-CZ1JF153D		15k 1/16W Metal Oxide	AB
R8989	VRS-CZ1JF473J		47k 1/16W Metal Oxide	AA
R8990	VRS-CZ1JF103J		10k 1/16W Metal Oxide	AA
R8991	VRS-CZ1JF121J		120 1/16W Metal Oxide	AA
R8992	VRS-CZ1JF152J		1.5k 1/16W Metal Oxide	AA
R8993	VRS-CZ1JF152J		1.5k 1/16W Metal Oxide	AA
R8994	VRS-CZ1JF271D		270 1/16W Metal Oxide	AB
R8995	VRS-CZ1JF271D		270 1/16W Metal Oxide	AB
R8998	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
			BALUNES	
FB801	RBLN-0028TAZZ		Balun, BLN-0028TA	AB
FB802	RBLN-0028TAZZ		Balun, BLN-0028TA	AB
FB1801	RBLN-0028TAZZ		Balun, BLN-0028TA	AB
FB3800	RBLN-0028TAZZ		Balun, BLN-0028TA	AB
FB8900	RBLN-0028TAZZ		Balun, BLN-0028TA	AB
			MISCELLANEOUS PARTS	
	PSLDM9162TAZZ		Shield	AD
SC801	QSOCN2492TAZZ		Socket, 24Pin	AE
SC804	QSOCN1019TAN1		Socket, 10Pin	AG
SC805	QSOCN0806TAN1		Socket, 8Pin	AL
SC806	QSOCN0805TAN1		Socket, 8Pin	AE
SC807	QSOCN0672TAZZ		Socket, 6Pin	AC
SC3800	QSOCN0605TAN1		Socket, 6Pin	AE

DUNTK3036PM00
CCD PWB UNIT

			TRANSISTORS			
Q1	VS2SC5383F/-1		2SC5383F			AB
Q2	VS2SC4627CD-1		2SC4627CD			AB
Q4	VS2SC4627CD-1		2SC4627CD			AB
			DIODE			
D1	VHDMC2852//-1		MC2852			AB
			CAPACITORS			
C1	VCSATA1CJ106M		10	16V	Tantalum	AD
C2	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C3	VCKYCZ1CB103K		0.01	16V	Ceramic	AB
C4	VCKYCZ1HF103Z		0.01	50V	Ceramic	AB
C5	VCKYCZ1HB222K		2200p	50V	Ceramic	AB
C6	VCKYTV1EB104K		0.1	25V	Ceramic	AB
C7	VCSATE1VJ335M		3.3	35V	Tantalum	AD
C8	RC-KZ0046TAZZ		4.7	35V	Ceramic	AD
			RESISTORS			
R2	VRS-CZ1JF103J		10k 1/16W Metal Oxide			AA
R4	VRS-CZ1JF103J		10k 1/16W Metal Oxide			AA
R5	VRS-CZ1JF123J		12k 1/16W Metal Oxide			AA
R6	VRS-CZ1JF122J		1.2k 1/16W Metal Oxide			AA
R7	VRS-CZ1JF104J		100k 1/16W Metal Oxide			AA
R9	VRS-CZ1JF000J		0 1/16W Metal Oxide			AA
R11	VRS-CZ1JF000J		0 1/16W Metal Oxide			AA
R10	VRS-CZ1JF332J		3.3k 1/16W Metal Oxide			AA
			MISCELLANEOUS PARTS			
SC1	QSOCN1771TAZZ∗		Socket, 17Pin			AD
SLD2	PSLDM3360TAMS		Shield			AD

Ref. No.	Part No.	★	Description	Code

RAMP-0035TAN1
HEAD AMP PWB UNIT

			INTEGRATED CIRCUITS			
IC301	VHiBH7275KV-1		BH7275KV, REC/PB Amp IC			AU
IC302	VHiM24C04W6-1		M24C04W6, E²PROM IC			AE
			TRANSISTORS			
Q302	VS2SC4738Y/-1		2SC4738Y			AA
	or					
	VS2SC4617B/-1		2SC4617B			AA
	or					
	VS2SC5383F/-1		2SC5383F			AB
Q303	VS2SC4738Y/-1		2SC4738Y			AA
	or					
	VS2SC4617B/-1		2SC4617B			AA
	or					
	VS2SC5383F/-1		2SC5383F			AB
			COIL			
L301	VPAWM4R7MR70N		Coil, 4.7µH			AC
			CAPACITORS			
C301	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C302	VCKYCZ1HF103Z		0.01	50V	Ceramic	AB
C303	VCSATE1AJ336M		33	10V	Tantalum	AG
C304	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C305	VCCCCY1HH331J		330p	50V	Ceramic	AA
C306	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C307	VCCCCY1HH331J		330p	50V	Ceramic	AA
C308	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C309	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C310	VCKYCZ1HF103Z		0.01	50V	Ceramic	AB
C311	VCKYCZ1HF103Z		0.01	50V	Ceramic	AB
C312	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C313	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C314	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C315	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C318	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C319	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C320	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C321	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C322	VCKYCY0JB105K		1	6.3V	Ceramic	AC
C323	VCKYCZ1HB102K		1000p	50V	Ceramic	AB
C324	VCKYCZ1HF103Z		0.01	50V	Ceramic	AB
C327	VCKYCZ1EB472K		4700p	25V	Ceramic	AB
C329	VCSATA1AJ106M		10	10V	Tantalum	AC
C330	VCKYCZ1HF103Z		0.01	50V	Ceramic	AB
C331	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C332	VCKYCZ1EB472K		4700p	25V	Ceramic	AB
C333	VCKYCZ1CB822K		8200p	16V	Ceramic	AB
C340	VCCCCZ1HH5R0C		5p	50V	Ceramic	AC
C342	VCCCCZ1HH5R0C		5p	50V	Ceramic	AC
C343	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C344	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
C345	VCKYCZ1AF104Z		0.1	10V	Ceramic	AB
			RESISTORS			
R304	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide			AA
R308	VRS-CZ1JF122J		1.2k 1/16W Metal Oxide			AA
R309	VRS-CZ1JF512J		5.1k 1/16W Metal Oxide			AB
R310	VRS-CZ1JF433J		43k 1/16W Metal Oxide			AA
R311	VRS-CZ1JF101J		100 1/16W Metal Oxide			AA
R312	VRS-CZ1JF102J		1k 1/16W Metal Oxide			AA
R313	VRS-CZ1JF822J		8.2k 1/16W Metal Oxide			AA
R314	VRS-CZ1JF101J		100 1/16W Metal Oxide			AA
R315	VRS-CZ1JF102J		1k 1/16W Metal Oxide			AA
R316	VRS-CZ1JF473J		47k 1/16W Metal Oxide			AA
R317	VRS-CZ1JF563J		56k 1/16W Metal Oxide			AA
R318	VRS-CZ1JF513J		51k 1/16W Metal Oxide			AA
R319	VRS-CZ1JF182J		1.8k 1/16W Metal Oxide			AA
R320	VRS-CZ1JF182J		1.8k 1/16W Metal Oxide			AA

Ref. No.	Part No.	★	Description	Code
R321	VRS-CZ1JF682J		6.8k 1/16W Metal Oxide	AA
R324	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide	AA
R330	VRS-CZ1JF563J		56k 1/16W Metal Oxide	AA
R332	VRS-CZ1JF102J		1k 1/16W Metal Oxide	AA
R333	VRS-CZ1JF222J		2.2k 1/16W Metal Oxide	AA
R377	VRS-CZ1JF000J		0 1/16W Metal Oxide	AA
R380	VRS-TV1JD100J		10 1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

P306	QCNCM8082TAZZ	Plug, 80Pin	AK
SC301	QSOCN0925TAN1	Connector, 9Pin	AE
SC303	QSOCN1006TAN1	Connector, 10Pin	AE
SC304	QSOCN0706TAN1	Connector, 7Pin	AE
SC305	QSOCN2071TAZZ	Connector, 20Pin	AD
SC306	QSOCN1871TAZZ	Connector, 18Pin	AE

MECHANISM PARTS

Ref. No.	Part No.	★	Description	Code
301	LCHSM0181GEZZ		Main Chassis Ass'y	AQ
302	MLEVF0539GEFW		Eject Control Lever	AD
303	MLEVF0502GEFW		Pinch Control Lever	AD
304	NGERH3062GEFW		Main Cam	AD
305	MLEVF0503GEZZ		Shifter Drive Lever Ass'y	AE
306	MLEVF0505GEFW		Loading Lever	AD
307	MARMM0130GEZZ		S Loading Arm Ass'y	AF
308	MARMM0131GEZZ		Tu Loading Arm Ass'y	AF
309	MLEVF0508GEFW		T Arm Control Lever	AD
311	LANGG9121GEFW		CAP FPC Stopper	AD
312	LANGF9016GEZZ		Intermediate Gear ANG Ass'y	AG
313	MARMM0132GEZZ		Swing Arm Ass'y	AG
314	LANGJ0053GEFW		Mechanism Fixing Angle	AH
315	LANGJ0054GEFW		Head amp PWB ANG	AE
324	RDTCH0039GEZZ		Dew Sensor	AD
330	CCHSS0050GE01		FPC Affixing Slide Chassis	AZ
331	LCHSS0050GEZZ		Slide Chassis Ass'y	AN
332	CPWBH5910GE01		Sensor FPC Ass'y	AX
334	LHLDP0104GEZZ		S-LED Holder	AC
335	LHLDP0105GEZZ		Tu-LED Holder	AC
337	LHLDZ0115GEZZ		Sensor FPC Guide	AC
338	QSW-M0035TAZZ		Down SW	AC
339	QTANZ0006GEZZ		Mic Contact SW	AG
340	RH-PX0180TAZZ		Cassette LED	AE
341	RH-PX0181TAZZ		S/E Sensor	AF
342	RDTCM0006TAZZ		Reel Sensor	AC
344	LANGG9124GEFW		Slide Adjustment ANG	AC
345	CANGG9123GE01		Down Guide with Label	AF
347	TLABH0590GEZZ		Cassette Control Caution Label	AB
351	MLEVF0542GEZZ		Tension Arm Ass'y	AG
352	MLEVF0511GEZZ		Tu Guide Arm Ass'y	AG
353	MLEVF0512GEZZ		Brake Shifter Ass'y	AE
354	LBNDK3022GEZZ		Tension Band Ass'y	AF
355	LANGA0073GEZZ		Reel Cover Ass'y	AG
356	LANGJ0038GEFW		T Spring Hanging ANG	AC
357	MLEVP0302GEZZ		Swing Arm Release Lever	AC
360	MLEVP0329GEZZ		Eject Lever	AC
361	MLEVP0296GEZZ		Pinch Drive Lever	AB
362	PGiDM0156GEZZ		Guide Rail	AC
363	PGiDM0186GEZZ		T Arm Control Lever Stopper	AC
364	NGERH1300GEZZ		Intermediate Gear A Ass'y	AE
365	NGERH1301GEZZ		Intermediate Gear B Ass'y	AB
366	NPLYV0164GEZZ		Intermediate Pulley Ass'y	AC
367	NPLYV0165GEZZ		Center Pulley Ass'y	AC
369	NGERH1302GEZZ		AHC Cam	AB
370	NGERH1303GEZZ		Coupling Gear	AB
371	NGERH1304GEZZ		Sub Cam	AC
372	NGERH1305GEZZ		S Loading Gear	AC
373	NGERH1306GEZZ		Tu Loading Gear	AC
374	MLEVP0333GEZZ		S Main Brake	AC
375	MLEVP0309GEZZ		Tu Main Brake	AB
376	LHLDX1046GEZZ		S Cassette Stay	AC
377	LHLDZ2024GEZZ		FPC Cover	AB
381	PGiDP0031GEFW		Tu Pole	AD
382	PGiDS0046GEFW		T Roller Upper Flange	AE
383	PGiDS0047GEFW		T Roller Bottom Flange	AE
384	NSFTL0761GEFW		T Roller Inner	AE
385	PGiDP0042GEFW		S Guide Sleeve	AD
386	PGiDM0170GEZZ		Slide Chassis Guide	AC
390	MSPRD0184GEFJ		Swing Arm Release SPR.	AC
391	MSPRT0417GEFJ		Main Brake SPR.	AB
392	MSPRT0436GEFW		T Arm SPR.	AB
393	MSPRD0178GEFJ		Tu Guide Arm SPR.	AB
394	MSPRD0179GEFJ		Pinch Lever Return SPR.	AB
395	MSPRD0180GEFJ		S Pressure SPR.	AB
396	MSPRD0181GEFJ		Tu Pressure SPR.	AB
397	MSPRC0220GEFJ		Guide Adjustment SPR.	AA
398	MSPRC0221GEFJ		Drum Fixing SPR.	AA
399	MSPRP0185GEZZ		PB Guide SPR.	AC

Ref. No.	Part No.	★	Description	Code
401	LX-WZ1071GE02		CW ø 0.7 ø 1.8t0.1	AC
402	LX-WZ1104GE06		CW ø 0.7 ø 2.2t0.25	AB
403	LX-WZ1029GE00		CW ø 1.2 ø 3t0.25	AA
411	LZ-WZ1105GE00		W ø 1.2 ø 2.5t0.13	AA
412	LZ-WZ1106GE00		W ø 1.2 ø 2.5t0.2	AA
413	XWHJZ12-03025		W ø 1.2 ø 2.5t0.3	AA
414	XWHJZ12-04025		W ø 1.2 ø 2.5t0.4	AA
415	XWHJZ12-05025		W ø 1.2 ø 2.5t0.5	AA
420	LX-BZ3202GEFF		Swing Arm Release Lever Fixing Screw	AC
421	LHLDZ2025GEZZ		Intermediate Gear Stopper	AB
425	LX-BZ0107GEFF		Special Screw M1.2 x L1	AB
426	LX-BZ0108GEFF		Special Screw M1.2 x L3.3	AA
428	LX-NZ0102GEFW		S Guide Hexagon Nut	AC
429	LX-BZ3203GEFF		Type 1 Minuteness Screw M1.4 x L1	AB
430	LX-BZ3185GEFN		Special Screw M1.4 x L2	AB
431	LX-BZ3135GEFF		Type 2 Minuteness Screw M1.4 x L1	AA
432	LX-BZ3201GEFF		Special Head Screw M1.4 x L2	AB
433	LX-BZ3132GEFF		Special Head Screw M1.4 x L1.5	AA
434	LX-BZ3131GEFN		Special Screw M1.4 x L1.6	AA
435	LX-HZ3089GEFF		S Tight Screw M1.4 x L2	AA
436	LX-HZ3076GEFF		S Tight Screw M1.4 x L3	AA
437	LX-HZ3088GEFF		L Motor Installation Screw	AB
438	LX-BZ3225GEFF		Drum Installation Screw	AC
439	LX-BZ3181GEFN		GR Lock Screw	AD
440	LX-HZ3084GEFF		S Tight Screw M1.4 x L4	AC
451	LPOLM0065GEZZ		Sup Pole Base Ass'y	AK
452	LPOLM0066GEZZ		Tu Pole Base Ass'y	AK
453	CGiDM0158GE02		Drum Base Ass'y	AN
454	NROLM0046GEZZ		Guide Roller Ass'y	AM
455	NROLM0045GEZZ		T Roller Ass'y	AK
456	NDAiV1076GEZZ		S Reel Base Ass'y	AM
457	NDAiV1077GEZZ		Tu Reel Base Ass'y	AK
458	MLEVF0526GEZZ		Pinch Lever Ass'y	AP
459	NBLTT0016GEZZ		Drive Belt	AD
461	RMOTM1080GEZZ		L Motor Ass'y	AQ
462	RMOTV1023GEZZ		Capstan Motor	AY
463	QSW-R0039GEZZ		Mode SW	AE
465	QPWBH5911GEZZ		LM/Mode FPC	AG
466	PDMP-0032GEZZ		Damper	AF
470	DDRMV0069GE03		Drum Ass'y	BZ
500	RAMP-0035TAN1		Head Amp PWB Unit	—
501	PSLDM3352TAFW		H/A FPC Shield Plate	AX
502	LANGG9125GEFW		Sensor FPC Cover	AC

CASSETTE CONTROL PARTS

Ref. No.	Part No.	★	Description	Code
600	CHLDX3091GE01		Cassette Control Ass'y	AU
601	LHLDX3091GEZZ		Housing Ass'y	AT
602	LANGF9649GEZZ		Top Cover Ass'y	AG
603	MSPRT0434GEFJ		Lock SPR	AB
604	MSPRT0435GEFJ		UP-SPR	AB
610	TLABH0589GEZZ		Cassette Control Lock Label	AB
434	LX-BZ3131GEFN		Special Screw M1.4 x L1.6	AA

CABINET PARTS LIST

Ref. No.	Part No.	★	Description	Code
1-3	GCOVH1249TASA		Adjustment Connector Cover	AE
1-4	GCOVH1270TASA		Lens Cap	AH
2-1	DUNTK3098QA00		MAIN PWB Unit(ME100E)	—
2-1	DUNTK3098QA01		MAIN PWB Unit(ME100S)	—
2-1	DUNTK3098QA02		MAIN PWB Unit(ME100H)	—
2-2	GCOVA1769TAKA		Shoe Fitting Cover	AD
2-3	JKNBP0202TASA		Open Knob	AF
2-4	LANGK0563TA01		Lock Angle Ass'y	AM
2-6	PZETE0038TAZZ		Insulation Sheet	AC
2-7	PSHEZ0031TAZZ		Insulation Sheet	AA
2-8	CPWBH2876TA01		FPC Connector	AS
3-1	CPWBH3043TA01		Card=Main FPC	AR
3-2	DUNTK2986QA02		Card PWB Unit	—
3-3	LANGK0557TAFW		Cassette Lid Inside Fitting	AM
3-4	UBNDT0128TASA		Handstrap	AL
3-5	LHLDE1004TASA		Belt Stopper	AC
3-6	PZETE0037TAZZ		Insulation Sheet	AC
5	DCABA6224TAK1		Cabinet A Service	AY
5-2	GCABD6118TAKA		Terminal Side Cabinet	AM
5-3	GCOVA1688TASA		Snap Cover	AF
5-4	GCOVA1690TASA		Terminal Cover	AD
5-5	GCOVA1709TASA		Terminal Section Hole Cover	AC
5-6	JBTN-0316TASA		Snap Button	AF
5-7	JBTN-0319TASA		Night Radar Button	AE
5-8	JKNBP0195TASA		Night Radar Knob	AF
5-9	LANGK0590TAFW		Tripod Angle	AK
5-10	LHLDZ1555TAZZ		Night Radar Holder	AC
5-11	QEARP0308TAZZ		Terminal Section Earth Sheet	
5-12	JBTN-0318TASA		Zoom Button	AG
5-13	LANGK0546TA01		Stay Front	AQ
5-14	LANGK0551TA01		Stay Rear	AL
5-15	LANGK0575TAFW		Snap Angle	AC
5-16	PMLT-0206TAZZ		Cassette Dust Protection Spacer A	AB
5-17	PMLT-0215TAZZ		Cassette Dust Protection Spacer J	AC
5-18	QEARP0287TAZZ		Earth Sheet	AC
5-19	QSW-Z0354TAZZ		Eject Switch Unit	AK
5-20	QSW-Z0358TAZZ		Zoom Unit	AS
5-21	QEARP0294TAZZ		Zoom Earth Sheet	AE
5-22	PMLT-0209TAZZ		FPC Protection Spacer A	AA
5-27	PSHEP0211TAZZ		Hot Shoe Insulation Sheet	AA
5-28	QEARP0304TAZZ		AV Terminal Earth Sheet	AD
6-2	GCOVA1685TASA		RS Terminal Cover	AD
6-3	GFTAS1014TAKA		Card Lid	AG
6-4	LHLDZ1559TAZZ		Cassette Lid Inside Holder	AD
6-5	MSPRD0075TAFJ		Card Lid Open Spring	AB
6-6	QSW-Z0353TAZZ		Power/SS/Lithium Unit	AV
6-8	VSP0020P-968N		Speaker	AL
7	DFTAC1310TAK1		KS Cassette Lid Service	AX
7-1	GCOVA1684TASA		Power Knob Cap	AF
7-3	HDECP0077TASA		Cassette Lid Nameplate	AD
7-4	JBTN-0321TASA		Power Lock Button	AC
7-5	JBTN-0322TASA		S/S Button	AG
7-6	JKNBP0196TASA		Media Change Knob	AE
7-7	JKNBP0197TASA		Power Knob	AE
7-8	JKNBP0200TASA		Card Lid Lock Knob	AC
7-9	LHLDZ1556TAZZ		Media Change Knob Holder	AC
7-10	LHLDZ1558TAZZ		Card Lid Lock Holder	AC
7-11	MSPRC0139TAFJ		Card Lid Lock Spring	AA
7-12	MSPRC0141TAFJ		Power Lock Spring	AA
7-13	PMLT-0207TAZZ		Cassette Dust Protection Spacer B	AC
7-14	QEARP0269TAFW		Power Knob Earth Plate	AB
7-16	PSHEP0181TAZZ		Power Knob Oscillatory Sheet	AB
9	DCABB6250TAK1		Cabinet B Service	AV
9-2	GCOVA1699TAZZ		R/C Cover	AD

Ref. No.	Part No.	★	Description	Code
9-3	HiNDP0243TASA		LCD Removable Display Panel	AD
9-4	JBTN-0320TASA		Menu Button	AE
9-5	JKNBP0207TASA		W/B Change Knob	AE
9-6	LANGK0566TAFW		Shoulder Strap Angle	AE
9-7	LANGK0567TAFW		Radiation Angle	AD
9-8	LHLDZ1565TAZZ		W/B Change Knob Holder	AC
9-9	PSHEP0209TASA		Protection Sheet	AE
9-10	PSHEZ0018TAZZ		Radiation Angle Fixing Sheet	AD
9-11	PSPAP0016TAZZ		Lock Section Blindfold Sheet A	AB
9-12	PSPAP0017TAZZ		Lock Section Blindfold Sheet B	AB
9-13	PSPAZ0315TAZZ		LCD Under Rubber	AA
9-14	QEARP0296TAZZ		Cooling Wheel Earth Sheet	AC
9-15	GCOVA1766TASA		Pop Up Cover	AC
9-16	JBTN-0323TASA		LCD Lock Button	AC
9-17	LANGK0612TAFW		Pop Up Cover Fixing Angle	AF
9-18	LANGK0571TAFW		RC Unit Retaining Angle	AD
9-19	LHLDZ1566TAZZ		16P Connector Retaining Holder	AC
9-20	MSPRC0147TAFJ		Pop Up Cover Spring	AA
9-21	MSPRD0077TAFJ		LCD Lock Button Spring	AB
9-22	NSFTZ0143TAFW		LCD Lock Shaft	AB
9-23	PCOVP9080TAZZ		Spacer	AA
9-24	RUNTK0379TAZZ		VCR Operation Unit	AY
9-25	QEARP0305TAZZ		Pop Up Earth Sheet A	AC
9-26	QEARP0306TAZZ		Pop Up Earth Sheet B	AB
10-1	QTANZ0149TAZZ		Battery Terminal Unit	AQ
11	DCOVA1689TAK2		Battery Cover Service	AL
11-2	JBTN-0317TASA		Battery Lock Button	AC
11-3	MSPRD0074TAFJ		Battery Lock Spring	AB
11-4	NSFTZ0139TAFW		Battery Lock Shaft	AB
11-5	PMLT-0208TAZZ		Zoom Dust Protection Spacer	AC
11-6	TLABH0439TAZZ		Battery Label	AC
11-7	LANGK0613TAFW		Battery Cover Angle	AC
12-5	CPWBH3042TA01		Camera=Main FPC	AL
13	CCABC6109TAK2		Lens Cabinet Ass'y	
13-2	GCOVA1785TASA		F Change Cover	AF
13-3	GCOVA1741TASA		Focus Grip	AE
13-5	GCOVA3115TASA		Focus Fixing Ring	AS
13-6	GCOVA3116TASA		Focus Ring	AR
13-7	HiNDP0236TASA		Lens Section Nameplate	AD
13-8	JKNBP0208TASA		F Change Knob	AE
13-9	LHLDZ1562TAZZ		Change Knob Holder	AC
13-10	LHLDZ1590TA00		Focus Detection Ring	AD
13-12	PSHEZ0024TAZZ		Focus Slide Sheet A	AF
13-13	PSHEZ0029TAZZ		Focus Slide Sheet A	AF
13-14	QEARP0290TAFW		Focus Earth Plate	AC
13-15	QEARP0288TAZZ		Focus Earth Sheet	AD
13-16	RUNTK0400TAZZ		Focus PWB	AT
13-17	QEARP0298TAZZ		Earth Sheet B	AB
14	CCOVA1740TAK1		Shoe Cover	AS
14-2	LANGK0591TAFW		Shoe Unit Retaining Angle	AF
14-3	LANGT0465TASA		Shoe Angle	AE
14-4	QEARP0299TAZZ		Hot Shoe Earth Sheet	AC
14-5	QJAKE0083TAZZ		Shoe Unit	AM
14-6	QPWBH3064TAZZ		Hot Shoe FPC	AG
15	CCOVA1739TAK1		Microphone Cover	BA
15-1	GCOVA1768TAZZ		IR Cover	AD
15-2	GCOVA1738TASA		Microphone Decoration Cover	AH
15-6	LANGK0560TAFW		Microphone Fixed Metal Fitting	AC
15-7	LHLDZ1592TAZZ		IR Holder	AK
15-9	PCOVP9083TAZZ		Blindfold Sheet	AC
15-10	PSPAZ0370TAZZ		Sound Isolation Spacer	AC
15-15	QEARP0291TAZZ		Earth Sheet	AA
15-16	RMiCC0100TAZZ		Microphone	AQ
15-17	RUNTK0398TAZZ		IR PWB	AM
15-18	GCOVA3118TASA		Microphone Aluminum Cover	AL
15-19	PSPAZ0371TAZZ		Sound Isolation Spacer B	AC
16	CHLDZ1594TA01		Lens Fixing Holder Ass'y	AX
16-1	LANGK0464TAFW		Plate Nut	AD
16-4	QSW-Z0355TAZZ		IR PWB	AG
16-5	RUNTK0399TAZZ		AVS DV Terminal Unit	AU
18-1	LANGK0592TAFW		Lens Fitting	AF
18-4	PLNSA0143TAN1		Lens Unit	BZ
20-1	CPNLC0058RM01		LCD Panel	BZ
20-2	DUNTK2983QA02		LCD PWB Unit	—
20-3	KLMPV0053TAZZ		Lamp Unit	AT
20-4	LANGK0558TAFW		Shield Case Front	AF
20-5	PGiDM0041TAZZ		Light Guide Plate	AG
20-6	PMiR-0042TAZZ		Reflection Sheet	AD
20-7	PSHEP0166TAZZ		Covering Sheet B	AD
20-8	PSHEP0170TAZZ		Diffusion Sheet	AD
20-9	PSHEP0171TAZZ		Wide-Angle Sheet	AD
20-10	PSHEP0172TAZZ		Prism Sheet	AH
20-11	PSHEP0173TAZZ		DBEF Sheet	AL
20-12	PSLDM9162TAZZ		Shield Sheet	AD
20-13	QSW-Z0351TAZZ		Touch Panel	BH
21	CANGK0559TA01		Shield Case Rear Ass'y	AL
21-2	PSHEP0164TAZZ		LCD Location Sheet	AB
21-3	PSPAZ0335TAZZ		LCD Covering Sheet	AE
21-4	PTPEH0044TAZZ		LCD Fixed Tape	AE
22-2	JKNBP0204TASA		Jog Knob	AD
22-3	LHLDZ1570TAZZ		Jog Holder	AC
22-4	QSW-Z0356TAZZ		Jog Switch Unit	AQ
23	DCABE6054TAK1		LCD Cabinet Service	AT
23-2	GCOVA1682TAKA		LCD Decoration Cover	AG
23-3	GCOVA1683TASA		Jog Cover	AG
23-4	HBDGB0053TASA		SHARP Badge	AF
23-5	HDECB0267TASA		LCD Nameplate	AD
23-6	JKNBP0205TASA		LCD Power Button	AE
23-7	LHLDZ1567TAZZ		LCD Power Holder	AC
23-8	QEARP0273TAFW		Jog Earth Plate	AB
24	CCOVA1681TAK1		LCD Front Cover Ass'y	AM
24-2	QEARP0274TAZZ		LCD Earth Sheet	AE
25	CCOVA3104TA02		Tilt Case	BF
25-1	GCOVA1700TAKA		Hinge Case Top	AE
25-2	GCOVA1701TAKA		Hinge Case Bottom	AE
25-3	GCOVA1702TAKA		Tilt Case Top	AF
25-4	GCOVA1784TAKA		Tilt Decoration Cover	AH
25-5	GCOVA1704TASA		Headphone Terminal Cover	AD
25-7	JKNBP0206TASA		Case Lock Knob	AC
25-8	LANGK0572TAZZ		Hinge Unit	AV
25-9	MSPRD0078TAFJ		Case Lock Spring	AC
25-11	PSHEZ0020TAZZ		Headphone Protection Sheet	AB
25-12	PSHEZ0021TAZZ		16 Pin Connector Earth Sheet	AB
25-13	PSHEZ0022TAZZ		Headphone Retaining Sheet	AA
25-14	RUNTK0377TAZZ		Remote Control Terminal Unit	AX
26-1	DCOVA1692TAK4		EVF Cover Service	BB
26-2	DCOVA3084TA04		Slide Cover Service	BE
26-3	GCOVD1007TAZZ		LCD Protection Cover	AF
26-4	GCOVH7068TA00		Eye Cap	AF
26-5	KLMPV0052TAZZ		Backlight	AT
26-6	LHLDZ1560TAZZ		PWB Holder	AE
26-7	PGiDH0014TA00		PWB Guide	AD
26-8	PSPAZ0334TAZZ		Covering Spacer	AC
26-9	RLCDV0068TAZZ		LCD Panel	BM
26-10	RUNTK0394TAZZ		Backlight PWB	AU
27	LHLDB1028TASA		Lithium Holder	AD
28	TLABM2186TAZZ		Model Label(ME100S)	AE
28	TLABM2187TAZZ		Model Label(ME100H)	AE
28	TLABM2184TAZZ		Model Label(ME100E)	AE
29	LANGK0568TAFW		Mechanism Fitting Frame	AH
30	PSAPG0124TA00		Floating Rubber	AC
31	LX-BZ0232TAFD		Floating Screw	AB
32	LX-BZ0231TAFE		Floating Screw	AB

Ref. No.	Part No.	★	Description	Code
33	DUNTK3097QA00		Camera Head PWB Unit	—
34	GCOVA1767TASA		Lens Hood	AH
35	PSLDM9168TAZZ		Camera Head Shield Sheet	AF
a	XiPSF17P02000		Screw M1.7x2 (Black)	AA
b	XiPSF17P03000		Screw M1.7x3 (Black)	AA
d	XiPSN17P02000		Screw M1.7x2 (Silver)	AA
e	XiPSN17P03000		Screw M1.7x3 (Silver)	AA
f	XiPSN17P04000		Screw M1.7x4 (Silver)	AA
g	XAPSN17P03000		Screw M1.7x3 1Kind (Silver)	AA
h	LX-BZ0244TAFN		Hinge Fixing Screw	AA
i	LX-HZ0050TAFF		M1.7x4 Tap (Black)	AA
j	LX-HZ0045TAFN		M2x4 Tap (Silver)	AA
k	LX-HZ0050TAFN		M1.7x4 Tap (Silver)	AA
l	LX-HZ3037CEFF		M1.7x5 Washer faced Tap (Black)	AA
m	LX-HZ0075TAFD		Pop Up Screw	AA
n	LX-HZ0081TAFN		M1.7x5 Tap (Silver)	AA
o	XiPSF17P05000		Screw M1.7x5 (Black)	AA

CAMERA UNIT PARTS LIST

1	PFiLW0083TAZZ		Crystal Filter	AS
2	PCOVM8016TA00		Dust Protection Rubber	AC
3	PSLDM3359TAFW		Shield Case	AC
4	VHLiCX286AK-1		CCD Sensor	BT
5	LANGK0607TAFW		CCD Retaining Plate	AC
6	DUNTK3036PM00		CCD PWB Unit	—
7	QPWBH3041TAZZ		CCD=Camera FPC	AF
8	PSLDM3360TAMS		Shield Case	AD
9	XiPSN17P02000		Screw M1.7x2 (Silver)	AA
10	LX-HZ0013TAFF		M1.7x4 Tap (Black)	AA

Ref. No.	Part No.	★	Description	Code

SUPPLIED ACCESSORIES

ACCESSORIES

⚠	QACCB0016TAZZ		AC Cable(ME100H)	AV
⚠	QACCK0006TAZZ		AC Cable(ME100S/E)	AL
	QCNW-1914TAZZ		PC Cable	BG
	QCNW-1957TAZZ		DC Cable	AT
	QCNW-1976TAZZ		A/V Cable	AY
	QCNW-2040TAZZ		LCD Cable	BA
	QCNW-2044TAZZ		Headphone Cable (ME100S/H)	AM
	QCNW-2045TAZZ		DV Cable(ME100S/H)	AX
	RRMCG0100TASA		Remote Control	AN
	TiNSL0263TAZZ		Operation Manual (ME100E)	AX
	TiNSL0270TAZZ		Operation Manual(E) (ME100S)	AU
	TiNSL0271TAZZ		Operation Manual(D/F) (ME100S)	AX
	TiNSL0272TAZZ		Operation Manual(S/P) (ME100S)	AX
	TiNSE0404TAZZ		Operation Manual (ME100H)	
	TiNSE0154TAZZ		Sarvice Guide(ME100H)	AA
	TiNSE0409TAZZ		Quick User Guide (ME100H)	
	RMiCC0096TAZZ		Zoom Microphone	BG
⚠	UADP-0321TAZZ		AC Adaptor	BG
	UBNDS0024TAZZ		Shoulder Strap	AH
	UBATL0011TAZZ		Lithium Battery	AE
	UBATi0066TAZZ		Battery Pack	BM
	CDSKA0059TA01		CD-ROM	AK
	CDSKA0063TA01		SD Card	BP
	GCOVA1767TASA		Lens Hood	AH
	QPLGA0010GEZZ		Plug Converter(ME100E)	AF

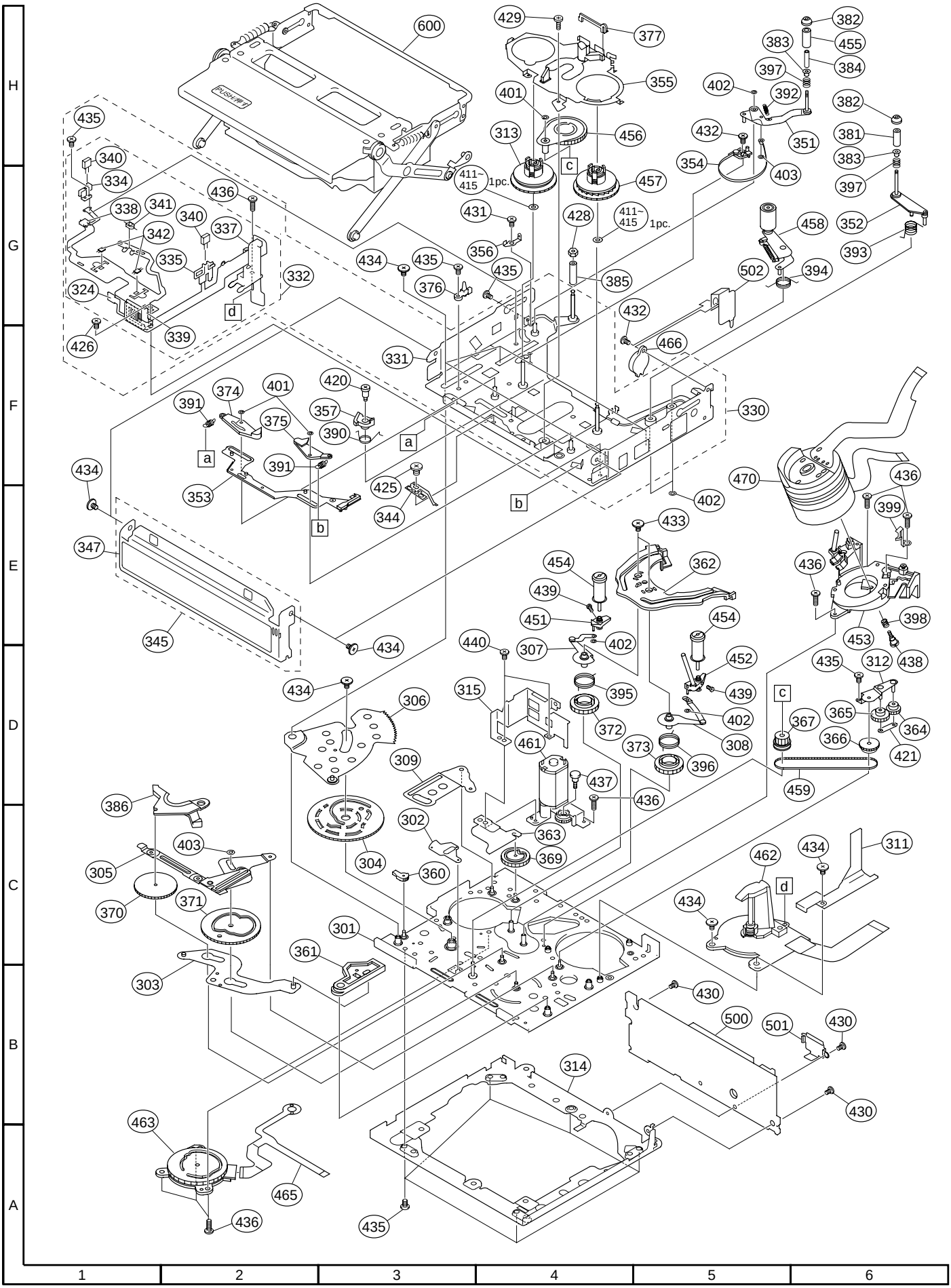
ACCESSORIES
(NOT REPLACEMENT ITEM)

	TGANE0057TAZZ		Guarantee Card(ME100H)	—
	TGANL0004TAZZ		Guarantee Card	—
	TLABK0001TAZZ		No.Card (x2)	—

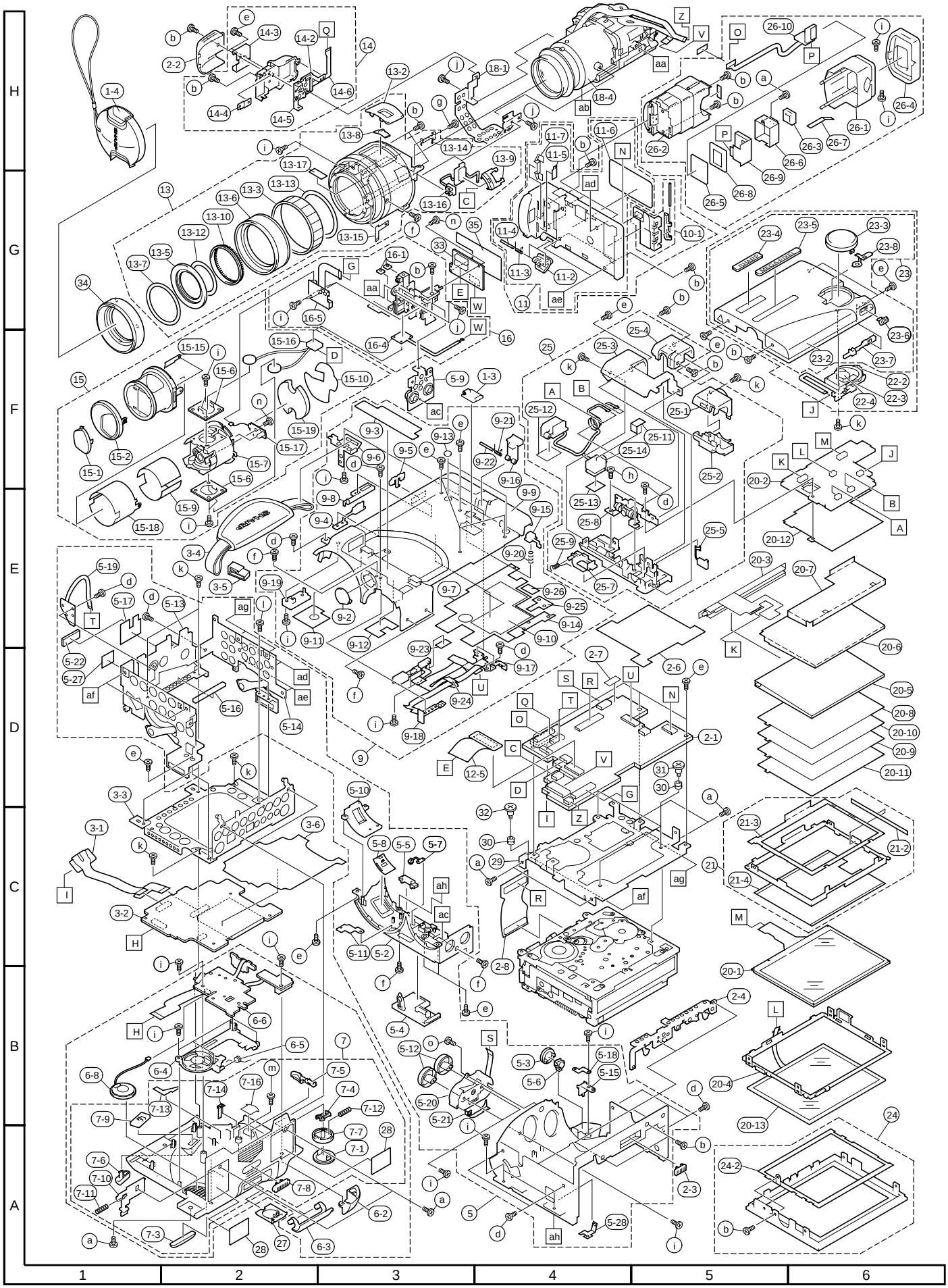
PACKING PARTS
(NOT REPLACEMENT ITEM)

	SPAKC7619TAZZ		Packing Case(ME100S)	—
	SPAKC7620TAZZ		Packing Case(ME100H)	—
	SPAKC7617TAZZ		Packing Case(ME100E)	—
	SPAKA6384TAZZ		Packing Add.(Top)	—
	SPAKA6385TAZZ		Packing Add.(Bottom)	—
	SPAKA6383TAZZ		Packing Add.	—
	SPAKP6159TAZZ		Wrapping Paper	—
	SPAKP6108TAZZ		Side Pad	—
	SSAKA0088TAZZ		Polyethylene Bag (ME100E/H)	—
	SSAKA0117TAZZ		Polyethylene Bag (ME100S)	—
	SPAKF0282TAZZ		AC Adaptor Pad	—

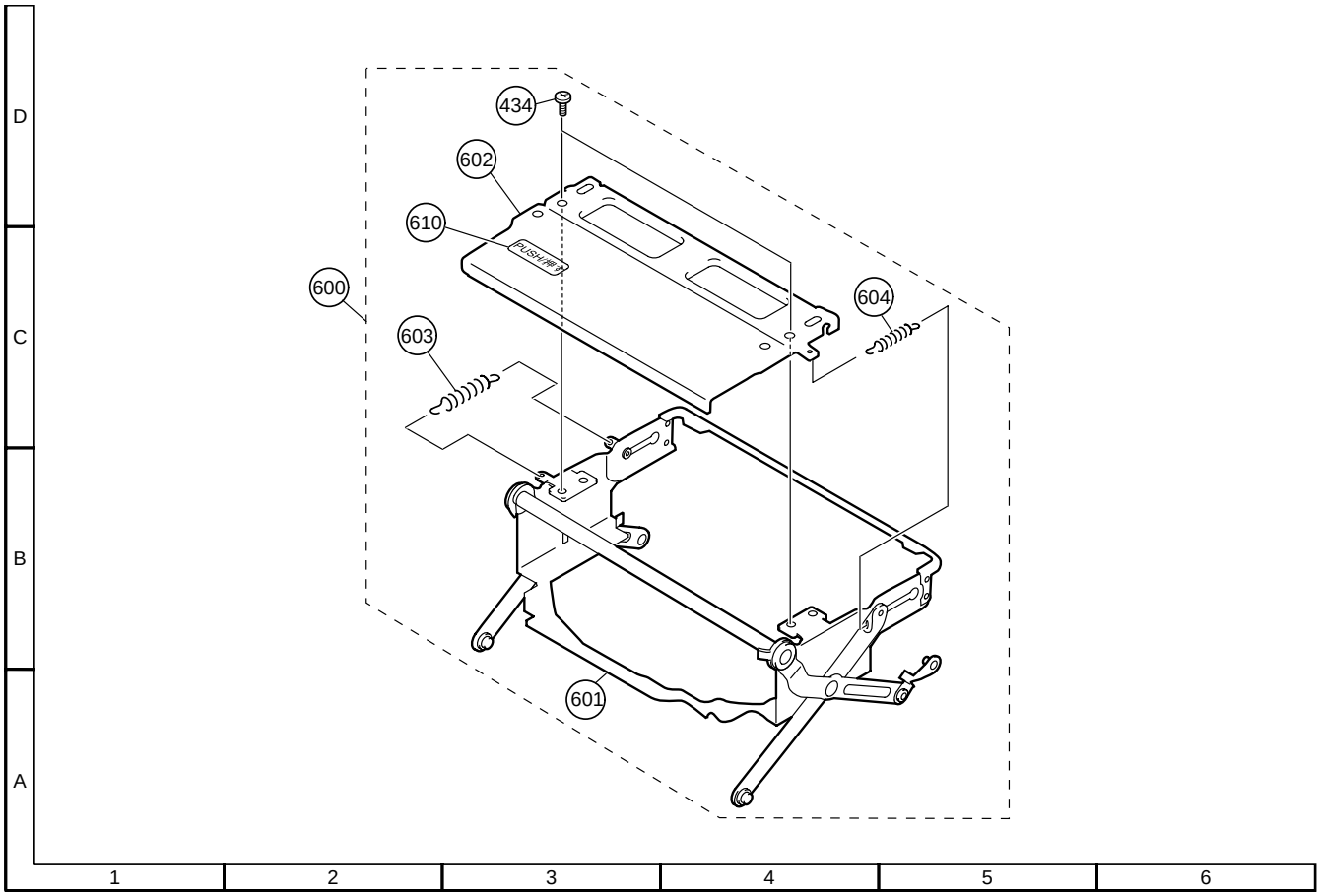
MECHANISM CHASSIS EXPLODED VIEW



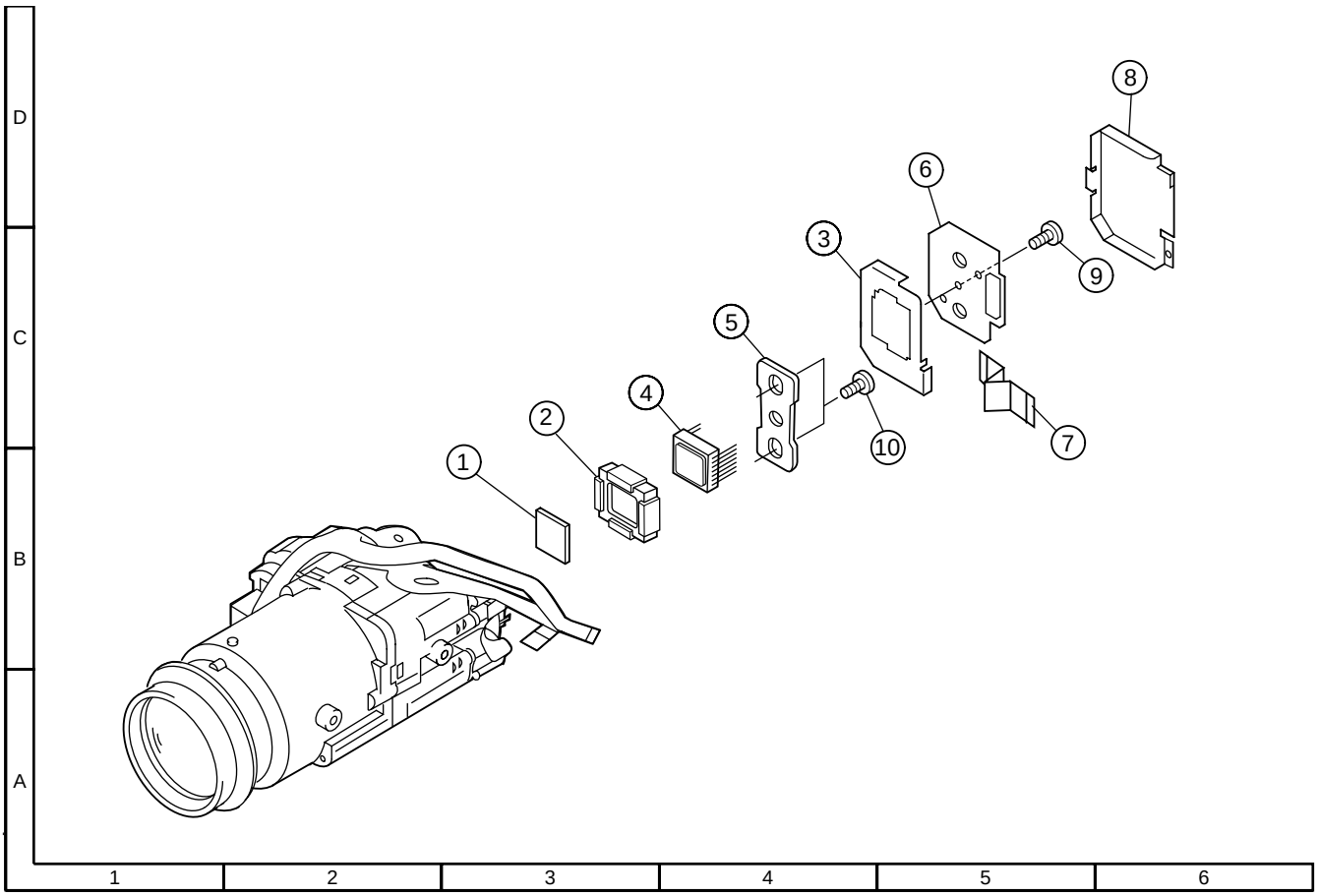
CABINET EXPLODED VIEW



CASSETTE CONTROL EXPLOOD VIEW



CAMERA UNIT EXPLOOD VIEW



VL-ME100S/H/E SERVICE JIG SPECIFICATIONS

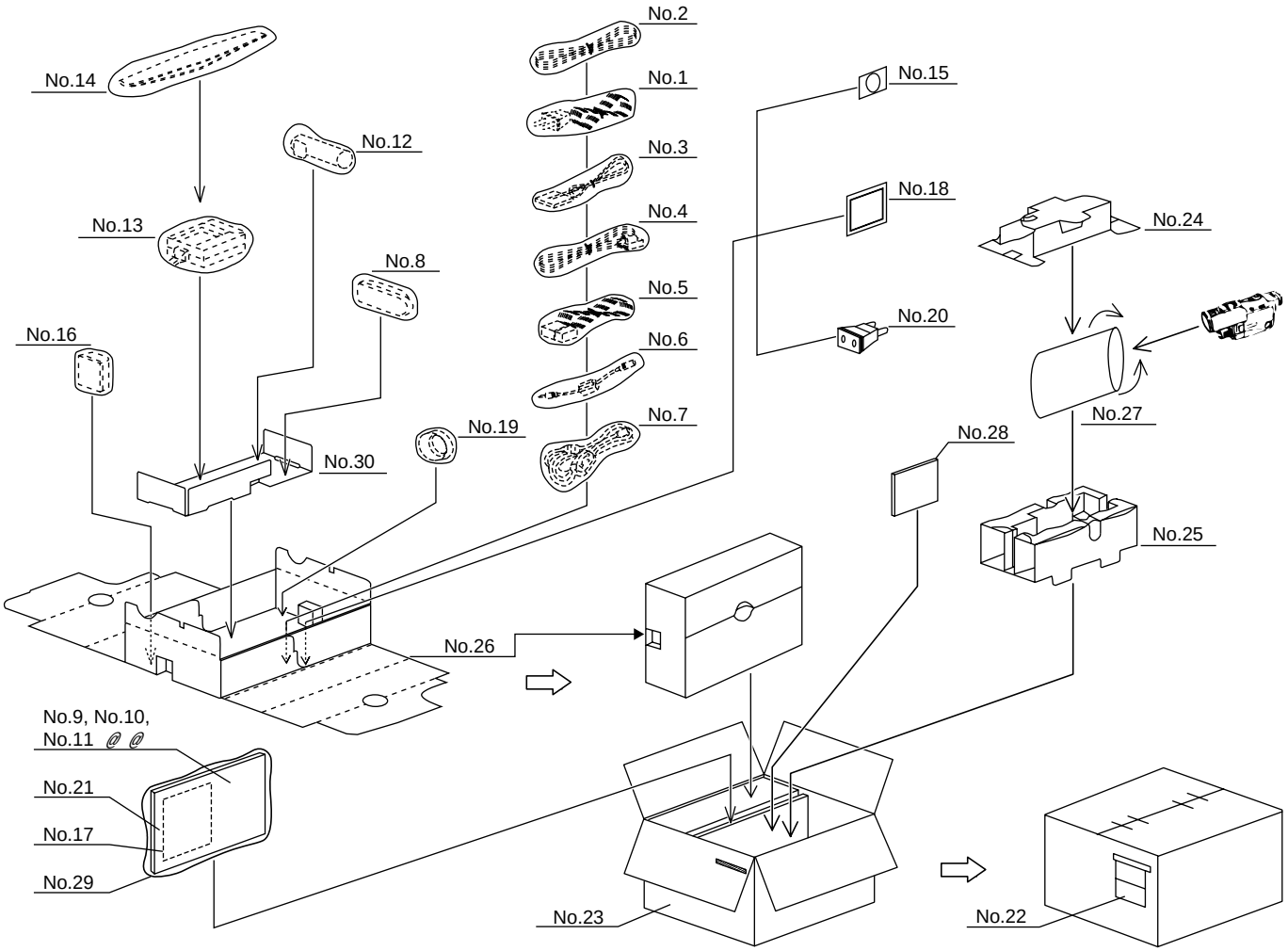
1-1. Adjusting jigs for checking the mechanism

No.	Name	New part	Type number, Application	Part code	Code
1	PB-use cassette torque meter		1mN·m/15mN·m	9DASD-1015	DB
2	Torque gauge		For use in VS-REW take up torque adjustment	JiGTG0045	CN
3	Torque gauge head		For use with the above torque gauge	9EQTGH-DH5000	BW
4	Tension gauge 4N		For measuring of pinch roller pressure	JiGSG0400	BK
5	Dial tension gauge		PTG-10	9DAPTG-10-10W	CA
6	Torque screwdriver 150mN·m		No. 0 cross bit, No. 00 cross bit	JiGTD1500RTDH	CB5
7	Master plane		For checking the reel base height	9EQMP-VLPD1	CL
8	Height adjustment jig		For height adjusting	9DAHG-PD1	BZ
9	Height adjustment screwdriver		For guide roller adjustment. For Tu guide adjustment. For T roller adjustment. Bit shape.	9EQDRiVER-DH5	BC
10	Alignment tape - I		For tape running adjustment	VR3-GAZXS	CF
11	Alignment tape - II		For Switching Point adjustment	VR3-JPZQS	CG
12	For hexagon nut opposite side 3mm bit		For S guide hexagon nut installation.	95CM22001	BL
13	Reel hub for back tension measurement		Refer to Service Manual.	Prepared in the service station.	–
14	String for measuring the pinch roller pressure		Refer to Service Manual.	Prepared in the service station.	–

1-2. Parts for periodical inspection and maintenance

No.	Name	New part	Type number, Application	Part code	Code
1	OiL		Cosumo Hydro HV22	9EQ-OiL-HV22	AE
2	Cleaning paper		Dusper ∑ (SIGMA) ozu Co., LTD	JiGDUSPER	AP
3	Grease: Moly Coat YM-103		Dow coaning	99FGREASE-YM103	AH

17. PACKING OF THE SET



ACCESSORIES

No.	Model	Parts Code	Description	Remarks
1	ME100H	QACCB0016TAZZ	AC Cable	⚠
	ME100S/E	QACCK0006TAZZ	AC Cable	⚠
2	– Common parts –	QCNW-1914TAZZ	PC Cable	
3	– Common parts –	QCNW-1957TAZZ	DC Cable	
4	– Common parts –	QCNW-1976TAZZ	A/V Cable	
5	– Common parts –	QCNW-2040TAZZ	LCD Cable	
6	ME100S/H	QCNW-2044TAZZ	Headphone Cable	
7	ME100S/H	QCNW-2045TAZZ	DV Cable	
8	– Common parts –	RRMCG0100TASA	Remote Control	
9	ME100E	TiNSL0263TAZZ	Operation Manual	
	ME100S	TiNSL0270TAZZ	Operation Manual(E)	
	ME100S	TiNSL0271TAZZ	Operation Manual(D/F)	
	ME100S	TiNSL0272TAZZ	Operation Manual(S/P)	
	ME100H	TiNSE0404TAZZ	Operation Manual	
10	ME100H	TiNSE0154TAZZ	Service Guide	
11	ME100H	TiNSE0409TAZZ	Quick User Guide	
12	– Common parts –	RMiCC0096TAZZ	Zoom Microphone	
13	– Common parts –	UADP-0321TAZZ	AC Adaptor	⚠
14	– Common parts –	UBNDS0024TAZZ	Shoulder Strap	
15	– Common parts –	UBATL0011TAZZ	Lithium Battery	
16	– Common parts –	UBATi0066TAZZ	Battery Pack	
17	– Common parts –	CDSKA0059TA01	CD-ROM	
18	– Common parts –	CDSKA0063TA01	SD Card	
19	– Common parts –	GCOVA1767TASA	Lens Hood	
20	ME100E	QPLGA0010GEZZ	Plug Converter	

ACCESSORIES *(NOT REPLACEMENT ITEM)*

No.	Model	Parts Code	Description	Remarks
21	ME100H	TGANE0057TAZZ	Guarantee Card	★
	– Common parts –	TGANL0004TAZZ	Guarantee Card	★
22	– Common parts –	TLABK0001TAZZ	No. Card (x2)	★

PACKING PARTS *(NOT REPLACEMENT ITEM)*

No.	Model	Parts Code	Description	Remarks
23	ME100S	SPAKC7619TAZZ	Packing Case	★
	ME100H	SPAKC7620TAZZ	Packing Case	★
	ME100E	SPAKC7617TAZZ	Packing Case	★
24	– Common parts –	SPAKA6384TAZZ	Packing Add. (Top)	★
25	– Common parts –	SPAKA6385TAZZ	Packing Add. (Bottom)	★
26	– Common parts –	SPAKA6383TAZZ	Packing Add.	★
27	– Common parts –	SPAKP6159TAZZ	Wrapping Paper	★
28	– Common parts –	SPAKP6108TAZZ	Side Pad	★
29	ME100E/H	SSAKA0088TAZZ	Polyethylene Bag	★
	ME100S	SSAKA0117TAZZ	Polyethylene Bag	★
30	– Common parts –	SPAKF0282TAZZ	AC Adaptor Pad	★

MARK ★ Not Replacement Item

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SHARP CORPORATION
AV Systems Group
Quality & Reliability Control Center
Yaita, Tochigi 329-2193, Japan